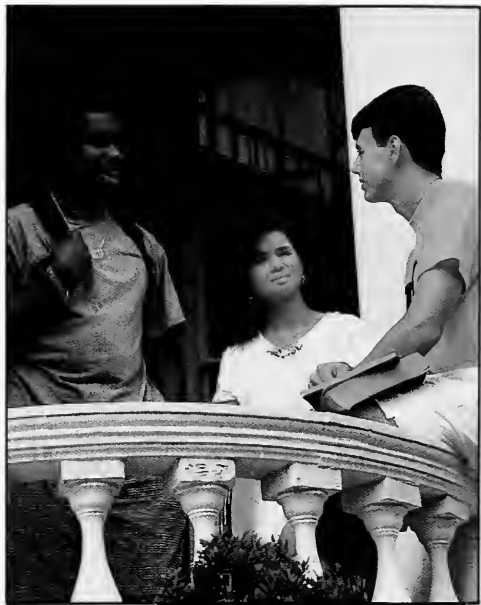


BLOOMSBURG UNIVERSITY



UNDERGRADUATE CATALOG
1991 - 1993

For information . . .

Dial 389 plus the extension number from off-campus telephones. On campus, use the four-digit extension. For offices not listed, call the university switchboard, (717)389-4000, 8 a.m. to 4:30 p.m.

Academic Advisement	16 Ben Franklin Hall	4271
Academic Affairs	Office of the Provost	
	Carver Hall	4308
Administration	Office of the Vice President for Administration	
	27 Waller Administration Building.....	4115
Admissions Office	10 Ben Franklin Hall	4316
Affirmative Action	122 Waller Administration Building.....	4528
Alumni Affairs	Alumni House	4058
Arts and Sciences,	Office of the Dean	
College of	106 Waller Administration Building.....	4410
Athletics Office	Nelson Field House	4354
Business, College of	Office of the Dean	
	214 Sutliff Hall	4019
Business Office	22 Waller Administration Building	4013/4407
Campus Child Center	Elwell Residence Hall	4547
Community Activities	Kehr Union	4461
Counseling/Human Dev.	17 Ben Franklin Hall	4255
Development Office	Carver Hall	4128
Extended Programs,	Office of the Dean	
School of	Magee Center, 700 West Main Street	4420
Financial Aid Office	19 Ben Franklin Hall	4279/4297
Graduate Studies,	Office of the Assistant Vice President for Graduate Studies	
School of	109 Waller Administration Building.....	4015
Health Center	3213 McCormick Human Services Center	4451/4452
Information Desk	Kehr Union	3900
Library, Andruss	General Information	4204
Ministries	Catholic (784-3123); Protestant (784-0703)	
Orientation Office	14 Ben Franklin Hall	4659
Police, Campus	Basement of University Store	4168
President's Office	Carver Hall	4526
Professional Studies,	Office of the Dean	
College of	3106 McCormick Human Services Center	4005
Registrar's Office	6 Ben Franklin Hall	4263
Residence Life Office	Luzerne Residence Hall	4089
Student Activities	Kehr Union	4346
Student Life Office	Office of the Vice President for Student Life	
	11 Ben Franklin Hall	4065
University Advancement	Office of Vice President for University Advancement	
	Carver Hall	4524
University Relations	115 Waller Administration Building	4411/4412
General Mailing Address:	Bloomsburg University of Pennsylvania	
	Bloomsburg, PA 17815-1301	

Above locations may be influenced by campus construction, but telephone extensions will remain as listed.

BLOOMSBURG UNIVERSITY *of Pennsylvania*

Undergraduate Catalog
1991-1993



Notice

The provisions of this catalog are not to be regarded as an irrevocable contract between the university and the student. Bloomsburg University reserves the right to amend any academic, administrative, or disciplinary policy or regulation (or fee) described in this catalog without prior notice to persons affected.

Requirements for graduation as well as curricula for degree programs, such as those requiring professional certification/licensure, may change throughout the student's matriculation. Such changes will not be retroactively required; however, the student will have the option to choose the new program or requirement, if desired.

Exceptions may be necessary when changes in professional certification or licensure standards mandate changes in academic requirements or in university programs.

Accreditation

Bloomsburg University is accredited by the Middle States Association of Colleges and Schools; the National Council for the Accreditation of Teacher Education; the National League for Nursing; the Council on Education of the Deaf; and the Council on Social Work Education. Programs of study have also been approved by the Pennsylvania State Board of Education and the State Board of Nursing. In addition, the bachelor of science program in chemistry offered by the Department of Chemistry is approved by the American Chemical Society.

Affirmative Action

Bloomsburg University is committed to providing equal educational opportunities for all persons without regard to race, color, religion, sex, age, national origin, ancestry, lifestyle, affectional or sexual preference, handicap, Vietnam era status as veteran, or union membership. The university is additionally committed to affirmative action and will take positive steps to provide such educational and employment opportunities. Inquiries may be referred to: Director of Affirmative Action, 122 Waller Administration Building, Bloomsburg University, Bloomsburg, PA 17815.

Access to Educational Records

In accordance with the Family Educational Rights and Privacy Act, commonly known as the Buckley Amendment, students are provided with privacy safeguards of their educational records. The university, therefore, issues reports of progress including grades, written evaluations and letters of warning, directly to the student. A student may have access to all information pertaining to his or her educational records and academic status.

Parents may have access to information pertaining to their son's or daughter's educational records and academic status without prior written consent of their son or daughter if he or she is a dependent as defined under Section 152 of the IRS Code of 1954. If the student is not a dependent, as defined by the IRS Code, then the university must receive prior written consent from the student in order to release such information to his or her parents.

University Mission Statement

Bloomsburg University, as one of 14 institutions in the State System of Higher Education of the Commonwealth of Pennsylvania, embraces the general mission of the system to assure excellence in higher education at an affordable cost. The campus is accessible and attractive, located in the Town of Bloomsburg near the Susquehanna River and Interstate 80.

Bloomsburg is a coeducational institution serving students of diverse backgrounds from Pennsylvania, its surrounding states, and foreign countries. To its community and region, the university is an artistic and educational resource that serves a broad range of community needs in education, health care, business-related services, library resources, and cultural activities. It offers undergraduate programs as well as graduate programs in select areas of strength. There is an emphasis on a strong liberal arts preparation. The university is committed to a program of affirmative action in order to provide equal educational opportunity to all persons.

It is a goal of the university to integrate academic programs, cultural activities, and interpersonal relations to promote intellectual growth and social responsibility among students. The university seeks to extend the academic environment from the classroom into other student activities. It strives to foster openness in communication and involvement in decision making through a participatory governance structure. In this atmosphere, faculty, administration, staff, and students attain a genuine respect for one another, a concern for the enrichment of their experience, and the achievement of their common purpose. The university community is committed to the principles of personal and academic freedom within the framework of ethical responsibilities.

By emphasizing the assimilation, synthesis, and integration of information, it is a goal of the university to develop in its students the characteristics of mental resourcefulness and responsible self-expression as well as the abilities to think critically, clarify values, and demonstrate problem-solving skills. While maintaining programs for which Bloomsburg has been traditionally recognized, such as those in business and education, the university has identified strategic directions that include programs in health-related fields; programs that promote student-faculty interaction in teaching, learning, and research; programs that emphasize regional, national, international, and environmental concerns; and programs that incorporate the application of technology into instruction. (*Approved by SSHE Board of Governors, July 1987*).

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Academic Calendars

1991-1992

Fall Semester, 1991

Classes begin at 8 a.m.	Aug. 26, Monday
Labor Day (no classes)	Sept. 2, Monday
Midterm begins at 10 p.m.	Oct. 15, Tuesday
Reading Day	Oct. 18, Friday
Thanksgiving recess begins at 1:50 p.m.	Nov. 27, Wednesday
Classes resume at 8 a.m.	Dec. 2, Monday
Classes end	Dec. 7, Saturday
Reading Day	Dec. 8, Sunday
Finals begin	Dec. 9, Monday
Finals end	Dec. 14, Saturday
Commencement	Dec. 15, Sunday

Spring Semester, 1992

Classes begin at 8 a.m.	Jan. 13, Monday
Midterm begins at 10 p.m.	March 3, Tuesday
Spring Break begins at noon	March 7, Saturday
Classes resume at 8 a.m.	March 16, Monday
Spring Weekend begins at 10 p.m.	April 16, Thursday
Classes resume at 6 p.m.	April 20, Monday
Classes end	May 2, Saturday
Reading Day	May 3, Sunday
Finals begin	May 4, Monday
Finals end	May 9, Saturday
Commencement	May 9, Saturday

1992 Summer sessions begin May 26, Tuesday.

1992-1993

Fall Semester, 1992

Classes begin at 8 a.m.	Aug. 31, Monday
Labor Day (no classes)	Sept. 7, Monday
Midterm begins at 10 p.m.	Oct. 14, Wednesday
Reading Day	Oct. 16, Friday
Thanksgiving recess begins at 1:50 p.m.	Nov. 25, Wednesday
Classes resume at 8 a.m.	Nov. 30, Monday
Classes end	Dec. 12, Saturday
Reading Day	Dec. 13, Sunday
Finals begin	Dec. 14, Monday
Finals end	Dec. 19, Saturday
Commencement	Dec. 20, Sunday

Spring Semester, 1993

Classes begin at 8 a.m.	Jan. 18, Monday
Midterm begins at 10 p.m.	March 3, Wednesday
Spring Break begins at noon	March 6, Saturday
Classes resume at 8 a.m.	March 15, Monday
Spring Weekend begins at 10 p.m.	April 8, Thursday
Classes resume at 6 p.m.	April 12, Monday
Classes end	May 8, Saturday
Reading Day	May 9, Sunday
Finals begin	May 10, Monday
Finals end	May 15, Saturday
Commencement	May 15, Saturday

1993 Summer sessions begin June 1, Tuesday

Degree Programs

Bloomsburg University offers 65 programs of study in the Colleges of Arts and Sciences, Business, and Professional Studies. Listed below are the degrees offered, the programs of study, the college that supports the program, and code numbers for courses in the subject area.

Degree	Program of Study	College	Code
Bachelor of Arts			
	Anthropology	Arts & Sciences	46
	Art History	Arts & Sciences	31
	Art Studio	Arts & Sciences	32
	Biology	Arts & Sciences	50
	Chemistry	Arts & Sciences	52
	Economics	Arts & Sciences	40
	English	Arts & Sciences	20
	French	Arts & Sciences	10
	Geography	Arts & Sciences	41
	German	Arts & Sciences	11
	History	Arts & Sciences	42
	Mass Communications	Arts & Sciences	27
	Mathematics	Arts & Sciences	53
	Music	Arts & Sciences	35
	Philosophy	Arts & Sciences	28
	Physics	Arts & Sciences	54
	Political Economics	Arts & Sciences	40
	Political Science	Arts & Sciences	44
	Psychology	Arts & Sciences	48
	Social Welfare	Arts & Sciences	45
	Social Sciences	Arts & Sciences	47
	Sociology	Arts & Sciences	45
	Spanish	Arts & Sciences	12
	Speech	Arts & Sciences	25
	Theater Arts	Arts & Sciences	26
Bachelor of Science			
	Accounting	Business	91
	Adult Health	Arts & Sciences	05
	Biology	Arts & Sciences	50
	•Marine Science	Arts & Sciences	55
	Business Administration	Business	—
	•Accounting	Business	91
	•Business Economics	Business	40
	•Business Law	Business	98
	•Finance	Business	96
	•Management Information Systems	Business	—
	•Management	Business	93
	•Marketing	Business	97
	Business Economics	Arts & Sciences	40
	Chemistry	Arts & Sciences	52
	Clinical Chemistry	Arts & Sciences	52

Computer and Information Science	Arts & Sciences	56
Computer and Information Science	Business	92
Earth & Space Science	Arts & Sciences	51
Geology	Arts & Sciences	51
Health Physics	Arts & Sciences	54
Interpreting	Professional Studies	74
Mathematics	Arts & Sciences	53
Medical Technology	Professional Studies	86
Natural Sciences and Mathematics	Arts & Sciences	59
Physics	Arts & Sciences	54
Social Welfare	Arts & Sciences	45
Radiologic Technology	Professional Studies	—

Bachelor of Science in Education _____

Business Education	Business	90
Comprehensive Social Studies	Professional Studies	—
Dental Hygiene	Professional Studies	—
Early Childhood Education	Professional Studies	62
Elementary Education	Professional Studies	62
Secondary Education	Professional Studies	65
•Biology	Professional Studies	50
•Chemistry	Professional Studies	52
•Communication	Professional Studies	25
•Earth & Space Science	Professional Studies	51
•English	Professional Studies	20
•French	Professional Studies	10
•Mathematics	Professional Studies	53
•Physics	Professional Studies	54
•Science Education	Professional Studies	—
•Spanish	Professional Studies	12
Special Education	Professional Studies	70
Speech Pathology & Audiology	Professional Studies	72

Bachelor of Science in Nursing _____

Nursing	Professional Studies	82
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Bachelor of Science in Office Administration _____

Office Administration	Business	
•Office Systems	Business	94

Associate of Science in Health Services _____

Health Services	Professional Studies	—
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Facts About Bloomsburg University

A Pennsylvania State System of Higher Education University

Bloomsburg University of Pennsylvania is one of the 14 state-owned universities that compose the Pennsylvania State System of Higher Education. In addition to 64 undergraduate degree programs and one associate degree program, Bloomsburg offers 20 master's degrees in select academic disciplines and a doctoral program in elementary education in cooperation with Indiana University of Pennsylvania.

Bloomsburg University has more than 7,400 students and is organized as three colleges (Arts and Sciences, Business, and Professional Studies) and two schools (Graduate Studies and Extended Programs). The scope and internal structure of each college is described in the succeeding chapter of this catalog.

The home of Bloomsburg University is its namesake, the Town of Bloomsburg, the county seat of Columbia County, Pa. The industrial, trading, and residential community of nearly 12,000 is located 80 miles northeast of Harrisburg and is within two miles of two interchanges off Interstate 80.

Bloomsburg is served by Greyhound and Continental Trailways bus lines. Commercial airports in the Scranton/Wilkes-Barre area and in Williamsport are approximately an hour's drive from the university.

History

An academy "to teach youth the elements of a classical education" was established in Bloomsburg in 1839. The academy continued with varied fortunes until 1856 when a charter was prepared and stock issued to reorganize it as the Bloomsburg Literary Institute. Institute Hall, later renamed Carver Hall after Henry Carver, an early principal, architect, and teacher, was erected in 1867. Today, the gold-domed, red-brick building is the university's landmark.

Largely through the efforts of J. P. Wickersham, superintendent of public instruction, the Bloomsburg Literary Institute officially became the Bloomsburg Literary Institute and State Normal School in 1869; it continued under this name and organization until 1916 when it was purchased by the Commonwealth of Pennsylvania and named Bloomsburg State Normal School.

The emphasis at the Normal School changed during the early 1920s from secondary and college-preparatory courses for specialized teachers to full-time teacher education. In May 1927, the institutional name was changed to Bloomsburg State Teachers College, and the school was authorized to grant the Bachelor of Science in Education for teachers in elementary and secondary schools.

Under the administration of President Francis B. Haas (1927-1939), great progress was made in the teacher education program, and a new degree program in business education was initiated.

Upon the appointment of Dr. Haas as state superintendent of public instruction, Dr. Harvey A. Andruss, then dean of instruction and a former director of the Business Education Department, was appointed president, a position he held until his retirement in 1969. During World War II, the U.S. Navy V-12 Officer Training Program was conducted on the Bloomsburg campus. As a result, a campus building was renamed Navy Hall. In 1957, a division of special education was instituted, and today, Navy Hall still houses that program.

Major expansion in facilities, faculty, and student body followed. Full-time enrollment rose from 1,743 in 1960 to 6,400 undergraduates in 1988.

In 1960, the institution's name was changed to Bloomsburg State College. Authorization soon followed to grant baccalaureate degrees for liberal arts programs in humanities, social sciences, and natural sciences/mathematics. Graduate study, leading to the Master of Education, also was inaugurated. In 1968, approval was received for the Master of Arts, in 1970 for the Master of Science, in 1976 for the Master of Business Administration, and in 1982 for the Master of Science in Nursing. A cooperative doctoral program in elementary education began in 1982.

Commonwealth legislation enacted on July 1, 1983, established the State System of Higher Education, and Bloomsburg State College became Bloomsburg University of Pennsylvania. Bloomsburg's president, Dr. James H. McCormick, became the system's interim chancellor and later its first permanent chancellor. Dr. Larry W. Jones, Bloomsburg's former provost and vice president for academic affairs, served as the university's interim president until July 1985, when Dr. Harry Ausprich assumed the chief executive position.

Bloomsburg is a strong, multi-mission institution offering curricula in liberal arts, business, nursing, allied health sciences, and teacher education. Degree programs are offered at associate, baccalaureate, and master's levels in addition to a cooperative doctoral program.

The Colleges and Schools

College of Arts and Sciences

Hsien-Tung Liu

Dean, College of Arts and Sciences

The College of Arts and Sciences includes curricula in 19 departments with the expressed intention of providing a quality liberal arts education. These curricula encourage broad exposure to knowledge, ideas, and intellectual process. The liberal arts philosophy places higher emphasis on general skills such as reading, writing, and critical analysis than on specific preparation for a particular career. Degree programs lead to a Bachelor of Science or a Bachelor of Arts, or both.

Bloomsburg was first authorized to offer the Bachelor of Arts in 1960 and the Bachelor of Science in 1963. Today, the college comprises 36 percent of the students and 64 percent of the faculty at Bloomsburg University. Virtually all General Education courses—courses required of all students seeking a baccalaureate degree—are offered through Arts and Sciences.

The Bachelor of Arts offers the student the opportunity for a liberal education through study in the humanities, the social sciences, and the natural sciences and mathematics. There are two patterns for the Bachelor of Arts, a pattern of emphasis within a broad field and the more common major in one of the academic disciplines. The Bachelor of Science provides the opportunity for a liberal education together with a specialization in a number of fields. Liberal arts graduates are prepared for a wide range of future goals. Students who are undeclared or undecided about an academic major are encouraged to enroll in Arts and Sciences curricula.

Degree Programs

All students must complete the General Education requirements described in the catalog section titled *General Education Requirements*. Each student selects a major and fulfills the major requirements as stated at the beginning of the course descriptions for each of the 19 disciplines in Arts and Sciences. Several programs have more than one option for fulfilling the major requirements.

Academic Minors

In addition to achieving an in-depth understanding of an academic discipline by completing the requirements of a major, students may gain knowledge in a second area by completing the minor requirements of that discipline. Each academic minor consists of a minimum of 18 semester hours of courses. The following disciplines offer academic minors: anthropology, art studio, art history, biology, computer science, economics, English, French, geography, history, mathematics, music, philosophy, physics, political science, psychology, sociology, and Spanish. Consult the area of interest in the catalog for course requirements.

**Arts & Sciences
Honors Program**

The College of Arts and Sciences provides superior students an opportunity to participate in an honors program during their junior and senior years. A student selected for this program participates in an honors seminar in the humanities, natural sciences and mathematics or social sciences, and prepares an honors thesis. The thesis is developed under the direction of a faculty member from the academic department that sponsors the student. Eligibility is limited to students with a minimum QPA of 3.5 for coursework in the freshman and sophomore years. Students interested in this program should contact their faculty adviser.

**Preprofessional
and Career
Advisement**

Preprofessional and Career Advisement Committees offer special supplementary advisement to students. Members of these committees help students learn about admission requirements of professional schools or careers and select college courses in harmony with these requirements.

Students interested in preprofessional or career advising should indicate this interest on the admission application to the university so that appropriate advisers may be notified.

As a rule, professional schools for dentistry, medicine, optometry, pharmacy, podiatry, and veterinary medicine do not specify an undergraduate major, but they do specify minimum essential courses, especially in the sciences and mathematics. These minimum requirements usually include courses in general chemistry, organic chemistry, mathematics, biology, and physics. High standards of undergraduate scholarship must be achieved if a student wishes to compete for admission to a professional school. More than 85 percent of Bloomsburg University's graduates who apply to medical and dental schools are accepted. Students anticipating these careers should contact the Department of Biological and Allied Health Sciences which provides faculty coordinators for preprofessional advisement.

Pre-Law

Students who intend to enter the legal profession need to be cognizant of the variations in entrance requirements for law schools. The Pre-Law Advisory Committee counsels students on course selection. Most law schools will consider applications from students with diverse majors, emphasizing the value of a thoroughly cultivated mind rather than a specific body of knowledge. Students interested in a law career or pre-law advisement should contact Professor Martin Gildea in the Department of Political Science or Professor Bruce Rockwood in the Department of Finance and Business Law in the College of Business.

**Career
Concentrations**

The College of Arts and Sciences provides multidisciplinary opportunities for students to pursue specializations in several career-oriented programs. Through a series of courses, usually in process and content areas, a student gains the foundation knowledge for later placement in vocational settings. The career concentration is intended as a specialty area in addition to the liberal arts major. These concentrations are not regarded as substitutes for an academic major, though course overlap exists for many programs. Career concentrations exist in 10 areas. Students may contact the following faculty members for more details.

10•The Colleges and Schools

Audiology Recording Techniques

Stephen C. Wallace, Department of Music

Community Recreation Leader

William J. Sproule, Department of Health, Physical Education, and Athletics

Community Services

Charles W. Laudermilch, Department of Sociology and Social Welfare

Environmental Planning

Brian A. Johnson, Department of Geography and Earth Science

Family, Children, and Youth

Dale L. Sultzbaugh, Department of Sociology and Social Welfare

Gerontology

Chang Shub Roh, Department of Sociology and Social Welfare

International Business

Francis J. Gallagher, Department of Marketing and Management

Organizational Relations

James H. Huber, Department of Sociology and Social Welfare

Outdoor Leadership and Management

James H. Dalton Jr., Department of Psychology

Public Administration

Charles G. Jackson, Department of Political Science

Independent Study

Independent study provides an opportunity for the student to pursue in-depth individualized instruction in a topic of special value or interest to the student. A limited number of independent study offerings are available each semester. Students interested in applying for independent study should develop a written proposal with their faculty sponsor. The proposed number of semester hours should be indicated in the proposal. The independent study proposal, along with the name of the faculty sponsor, is submitted to the appropriate academic department for recommendation, then to the dean of Arts and Sciences for final approval.

Academic Departments

The College of Arts and Sciences is comprised of 19 academic departments. Chairpersons are selected on a three-year cycle and departments with more than 15 faculty members also name an assistant chairperson. During summer sessions, a faculty member is designated as the summer chair for each area. While most departments enjoy full-time secretarial support, some departments share clerical staff and rely on part-time and student help. The academic departments in Arts and Sciences include:

Department of Anthropology

Department of Art

Department of Biological and

Allied Health Sciences

Department of Chemistry

Department of Communication
Studies

Department of Economics

Department of English

Department of Geography
and Earth Science

Department of History

Department of Health, Physical
Education, and Athletics

Department of Languages and
Cultures

Department of Mass Communications

Department of Mathematics and
Computer Science

Department of Music

Department of Philosophy

Department of Physics

Department of Political Science

Department of Psychology

Department of Sociology and
Social Welfare

College of Business

Carol J. Matteson
Dean, College of Business

The College of Business is organized into five departments: accounting, computer and information systems, finance and business law, marketing and management, and business education and office administration. It offers curricula in business administration with six specializations and degree programs in computer and information science, business education with four options for certification, and office administration.

The curriculum in business administration prepares students for beginning positions in business; computer and information science provides skills in applications systems and programming; the business education program leads to certification as a teacher of business subjects; and the curriculum in office systems prepares students for the administration and management of a business office.

Students enrolled in other colleges within the university who wish to transfer to a business curriculum must have completed a minimum of 15 semester hours at Bloomsburg and have a cumulative Quality Point Average of 2.5 or higher to be eligible for admission. Admission to the College of Business is selective.

The hub of the college is Sutliff Hall, the location of the dean's office, faculty offices, the majority of business classrooms, and computer facilities. Undergraduate students in business also use computer laboratories in the McCormick Human Services Center and Ben Franklin Hall.

In recognition of the spiraling use of computers in the business profession, the entire college is committed to the incorporation of computer-based methods in the curriculum. In support of this major endeavor, each full-time faculty member now has an appropriate microcomputer available in his or her office. A common access microcomputer laboratory is now in operation in Sutliff Hall, which has recently undergone major renovation. A local area computer network interconnects faculty and administrative offices and ties in with the computer facility in the McCormick Human Services Center. A uniform software standard also has been introduced to meet these goals in a manner that is efficient for the College of Business and its students.

Academic Departments

The College of Business is comprised of the following five academic departments:

- Department of Accounting
- Department of Business Education and Office Administration
- Department of Computer and Information Systems
- Department of Finance and Business Law
- Department of Marketing and Management

12 • The Colleges and Schools

Programs and Specializations

Business Administration

Bachelor of Science in Business Administration

Specializations in:

Accounting

Business Economics

Finance

Management Information Systems

Management

Marketing

Business Education

Bachelor of Science in Education

Certification in:

Accounting

Data Processing

Marketing

Office Technologies (*Required for all majors*)

Computer and Information Systems

Bachelor of Science in Computer and Information Science

Office Systems

Bachelor of Science in Office Administration

Institute for Comparative and International Management Studies

The Institute for Comparative and International Management Studies (ICIMS) has been established at Bloomsburg to fulfill the university's missions and goals through sponsorship and initiation of activities aimed at increased understanding of cross-cultural and comparative management issues. The institute initiates, coordinates, and administers joint degree programs with overseas universities in business administration; sponsors management research projects within the U.S. and at overseas sites; provides consulting services and workshops in all areas of management; and develops and administers quality executive development and training programs as required by a particular country.

ICIMS with offices in Elwell Residence Hall seeks to provide educational and internship opportunities in many European and Asian countries, such as the United Kingdom, France, the Netherlands, Taiwan, and China. New opportunities for student exchanges and internships in the Soviet Union and several other Eastern European countries are currently being developed.

In addition to exchange programs, ICIMS coordinates a Master in Business Administration program in Taiwan and Singapore, hosts international conferences, and serves as a regional resource center for area businesses. For more information, contact the institute's office at 389-4913.

College of Professional Studies

Howard K. Macauley
Dean, College of Professional Studies

School of Education

Programs are offered for preparation of teachers for early childhood centers and elementary schools, academic subjects in secondary schools, special education, communication disorders, and business education. The business education program is administered in departments of the College of Professional Studies.

The teacher education program at Bloomsburg University is committed to improving the field of education through a comprehensive program which recognizes its unique contribution to society, both as a reflection of that society and as an agent for the improvement of society. To meet this obligation, the programs draw upon the knowledge and understanding of general as well as professional education. It strives for a blend in preparing a person to fulfill a role in society as an informed, inquiring, and skilled professional.

More specifically, the teacher education programs provide:

- The basic academic preparation for persons to acquire a depth and breadth of knowledge in both general and specialized studies;
- Basic training to insure mastery of the specific skills necessary for competent functioning as a professional;
- An opportunity for further enrichment within the individual's area of professional competence through a regular program of speakers, seminars, and related activities;
- Human and physical resources necessary to assist in the educational development and growth of the community served by the university; and
- The means for the advancement of knowledge through research in specific areas of education.

Bloomsburg University is committed to the preparation of teachers of the highest quality. In pursuit of that goal, the School of Education subscribes to and endorses the philosophic statement as developed by the American Association of Colleges for Teacher Education as a guide to the development and operation of all of its teacher education programs.

Generic Role Competencies

The teacher education faculty believe that for successful teaching to occur, the teacher must perform effectively in a number of different roles. The teacher also must command functional knowledge in appropriate content area(s) as well as in cognate disciplines with direct or related significance for the act of teaching.

Six generic role competencies and 15 related cognate strands have been identified as central to the preparation of candidates in teacher education programs at Bloomsburg University.

Role Competencies

Assessing and Diagnosing
Instructing
Managing

Documenting and Evaluating
Communicating and Interacting
Planning

Cognate Strands

Curriculum Theory
Educational Anthropology
Educational History
Educational Law
Educational Measurement
and Evaluation
Educational Organization
and Administration
Educational Philosophy
Educational Psychology

Educational Research
Educational Sociology
Educational Technology
Group Dynamics
Human Development and
Exceptionality
Instructional Theory
Knowledge in one or more
content areas

Accreditation of Teacher Education

Bloomsburg is accredited by the National Council for the Accreditation of Teacher Education (NCATE) and the Council on Education of the Deaf. The teacher education programs outlined in this catalog have been approved for teacher certification by the Pennsylvania Department of Education. The Speech, Hearing, and Language Clinic is certified by the Professional Services Board of the American Speech, Hearing, and Language Association.

Teacher Certification

The completion of one of the approved programs in teacher education is prerequisite to institutional recommendation for a teacher's certificate. Upon recommendation, an initial certificate is granted by the Commonwealth of Pennsylvania. The appeal procedure for considering the problems of certification candidates can be found in the section of the catalog dealing with academic grievances.

As of June 1987, all individuals seeking teacher certification in Pennsylvania are required to pass state mandated tests at levels determined by the Secretary of Education. The tests assess basic skills, general knowledge, knowledge of subjects in which certification is sought, and professional knowledge.

An initial certificate is designated as Instructional Level I. It is valid for six years. A Level I certificate is not subject to renewal beyond a total of six years after the individual begins teaching. A permanent Level II certificate is issued upon completion of three years of successful teaching and experience under a Level I certificate and the completion of a minimum of 24 semester hours of postbaccalaureate coursework.

Programs offered for Level I certification are:

Early Childhood Education (Preschool through Grade 3)

Elementary Education (Kindergarten through Grade 6)

Business Education (accounting, data processing, marketing)

Secondary Education (biology, chemistry, communication, earth/space science, English, French, Spanish, general science, mathematics, physics, comprehensive social studies)

Special Education (mentally and/or physically handicapped)
Communication Disorders (speech correction or hearing im-
 paired)
Dental Hygiene

Interstate Certificate Agreements

Pennsylvania cooperates in several interstate agreements that stipulate that holders of Pennsylvania Instructional Certificates are eligible, subject to special provisions, for reciprocal credentials in other states. Participating states currently include:

Alabama	Indiana	Rhode Island
California	Kentucky	South Carolina
Connecticut	Maryland	Utah
Delaware	Massachusetts	Vermont
District of Columbia	New Hampshire	Virginia
Florida	New Jersey	Washington
Hawaii	New York	West Virginia
Idaho	North Carolina	
	Ohio	

Other states may be willing to grant reciprocity. Graduates of Pennsylvania-approved programs are advised to contact the teacher certification office in the state in which they wish to obtain certification for application forms and instructions. The names and addresses of the appropriate officials should be available in most college placement offices.

Admission to Teacher Education

Students who wish to pursue teacher education are initially admitted to the College of Professional Studies with an intended major and schedule courses in harmony with the requirements of the program they wish to follow. In due course, they apply for admission to teacher education through the department in which their intended major resides. Admission to teacher education is governed by University Policy No. 3810, with amendments and emendations as necessary, which states that for admission the candidate must:

1. Possess a minimum cumulative QPA of 2.5;
2. Successfully complete (cutoff scores are established by the faculty in teacher education locally and the Secretary of Education for certification purposes) one of the Pennsylvania Teacher Certification Tests and/or nationally normed test of basic skills and general knowledge prior to admission to teacher education program;
3. Successfully complete a field experience;
4. Submit two recommendations from teacher education faculty including the field experience supervisor;
5. Complete, with a grade of C or better, two courses in English composition, a course in public speaking and/or a course in interpersonal communication;
6. Complete tests of speech, hearing, vision, and tuberculosis (yearly) with remediation begun as required;
7. Present evidence of membership in a professional education organization that provides a professional liability insurance policy or possession of a professional liability insurance;

8. Submit a handwritten personal biography that cites: personal interests, special skills, experiences with children, youth or adults that would be relevant for a preservice teacher;
9. Complete a personal interview with a team of School of Education faculty where all the above are reviewed and a recommendation for or against admission is made.

Students are apprised of the demands of Pennsylvania Acts 33 and 34.

**Retention in
Teacher
Education**

Admission to teacher education is equivalent to candidacy for the Bachelor of Science in Education. This candidacy can be revoked if the following requirements, as stated in University Policy No. 3810 and amendments, are not met.

1. Successful completion (grade of C or better) in professional education courses and/or in the area of specialization;
2. Maintenance of a minimum cumulative QPA of 2.5 and a minimum average of 2.0 in the area of academic specialization or be placed on probation one semester. If the student's QPA falls below 2.5 overall, or below 2.0 in the area of specialization in a secondary education program beyond one semester, dismissal from the program ensues;
3. Continuation of field and clinical experiences in specific courses;
4. Close supervision of above by advisers and chairperson to ensure student teaching eligibility and to suggest counseling and/or remediation;
5. At least once a year, attendance at a class meeting held by department(s) for the dissemination of information and general advisement;
6. Demonstration of competency in student teaching supported by:
 - a. Recommendations from and competency evaluations by cooperating teacher(s) and university supervisor(s); and
 - b. A grade of C or better.

**Graduation
from Teacher
Education
Programs**

In order to graduate from a teacher education program, a candidate must have met the requirements as stated in University Policy No. 3810 and satisfied the following requirements:

1. A minimum cumulative QPA of 2.5;
2. Successful completion (cutoff scores to be established by the faculty in teacher education locally and the Secretary of Education for certification purposes) of Pennsylvania Teacher Certification Tests of: basic skills, generic skills, subject matter knowledge (prior to student teaching), and professional knowledge.

Note: Candidates may take the Pennsylvania Teacher Certification Tests on demand (before or after graduation).

Field Experience

Students in teacher education are required to engage in field experiences where they work in and observe the educational process in the schools. These experiences help students decide whether or not they wish to follow careers in teaching. Participants are exposed to many aspects of teaching and to the operation of the schools, thus providing

experience that should increase the relevancy of coursework in professional education. Field experiences also are a part of courses in professional education. These include field trips, observations, micro-teaching, and assisting teachers in school settings.

**Student
Teaching**

Teacher education culminates in student teaching. Having satisfied the prerequisites for student teaching courses, undergraduates are assigned to positions in public or private schools for the first or second semester of their senior year. They are placed based on the availability of qualified cooperating teachers in their subject area and the willingness of schools with programs approved by the university. Students should be prepared to accept assignments in any of the student teaching centers.

A student teaching semester is divided into two equal periods so that students may teach at two grade levels and frequently in two socioeconomic environments. Because of constantly changing educational and socioeconomic circumstances, flexibility of format is maintained in the student teaching program.

**Student
Teaching Centers**

Student teaching centers and cooperating teachers are drawn from urban, suburban, and rural areas. Students in elementary and secondary education may be assigned to Central Pennsylvania, to suburban Philadelphia, or to inner-city locations. Business education student teaching centers are located in the Bloomsburg, Allentown, and Williamsport areas. Students in communication disorders and special education are assigned to the White Haven Center, Selinsgrove Center, and to public schools and other agencies located in Pennsylvania and nearby states.

Students may arrange their student teaching assignment in one of the international centers with which Bloomsburg cooperates, for example, in Liverpool or London, England. Information about this program may be obtained from department chairpersons.

**Cooperating
Teacher and
Clinicians**

Cooperating teachers and clinicians are selected by faculty in teacher education based on criteria set forth by the Pennsylvania Department of Education. These parameters are:

1. At least three years of teaching experience, one year of which has been in the district to which the teacher candidate is assigned;
2. A teaching assignment appropriate to the subject competency of the teacher candidate;
3. Completion of a program of preparation on observation and evaluation skills developed by the college or university for the cooperating teacher.

Training at the university is achieved through the following means:

1. Individualized training;
2. Use of student teaching and clinical manual;
3. Providing research and reading materials to cooperating teachers and clinicians on a regular basis;
4. Consortiums (cooperating teachers/clinicians are invited to a yearly meeting);
5. Graduate course offerings.

School of Health Sciences

Nancy Onuschak, assistant dean

The School of Health Sciences, one of the two schools organized under the College of Professional Studies, offers health science programs at both the undergraduate and graduate levels in adult health, allied health, communication disorders, and nursing. Administrative responsibilities for the programs in adult health and communication disorders are assumed by the Department of Health, Physical Education, and Athletics and Department of Communication Disorders and Special Education, respectively. Information regarding the curricula for these programs is presented in this catalog under their subject titles.

Allied Health Sciences

James E. Cole, coordinator

The allied health sciences encompass those health areas in which individuals support, aid, and increase the efficiency and effectiveness of other health care professionals by becoming a contributing member of the health care team. The curricula offered at Bloomsburg include medical technology, radiological technology, health services associate, dental hygiene, pre-occupational therapy, pre-physical therapy, and pre-cytotechnology. Completion of these programs involves clinical education and experience – usually away from the campus. The university offers degrees for the first four curricula, namely a bachelor's degree for medical technologists and radiological technologists, an associate degree in health services, and a Bachelor of Science in Education for dental hygienists. Radiological technology, health services associate, and the dental hygiene curricula are advanced entry programs.

An affiliation with Thomas Jefferson University's College of Allied Health Sciences in Philadelphia facilitates transfer of students from the preparatory curricula of physical therapy, occupational therapy, and cytotechnology into baccalaureate programs there. Bloomsburg University is an active participant in the P.A.C.E. program sponsored by Thomas Jefferson University.

Nursing Program

Nancy Onuschak, chairperson

**Degree and
Licensure**

The nursing program at Bloomsburg University provides learning opportunities in nursing and related disciplines which enable students to attain attitudes, knowledge, and skills essential to the role development of a beginning practitioner. The baccalaureate program culminates in the Bachelor of Science in Nursing (BSN) and qualifies its graduates to sit for the licensure examination administered by state boards of nursing which establishes them as registered nurses.

Graduates employ critical thinking, responsible decision making, and independent judgment through the nursing process to provide health care to a diverse and multicultural society in a variety of health care settings. The nursing program at Bloomsburg is not only a conduit for further education but also for lifelong learning activities.

In accordance with the Professional Nursing Law (P.L. 317, No. 69, Jan. 1, 1986) a felonious act prohibits a person from obtaining licensure in Pennsylvania. In compliance with this legislation, the following guidelines are enforced by The Pennsylvania State Board of Nursing.

A license or certificate shall not issued to an applicant who has been:

1. Convicted* of a felonious act prohibited by the act of April 14, 1972, (P.L. 233, No. 64) known as *The Controlled Substance, Drug, Device, and Cosmetic Act*;
2. Convicted* of a felony relating to a controlled substance by a U.S. court of law or by any other state, territory or country unless:
 - a. At least 10 years have elapsed since the date of conviction;
 - b. The applicant satisfactorily demonstrates to the board significant progress in personal rehabilitation since the conviction such that licensure should not create a substantial risk of further violations;
 - c. The applicant otherwise satisfies the qualifications contained in this act.

*Convicted includes a judgment, an admission of guilt, or a plea of nolo contendere. A person convicted of any felonious act may be prohibited from licensure by the Pennsylvania State Board of Nursing at any time.

Accreditation The Bachelor of Science in Nursing (BSN) program is accredited by the National League for Nursing and approved by the Pennsylvania State Board of Nursing.

Application Categories Applications to the nursing program fall into two categories: freshman and transfers.

Freshman—A secondary school student or secondary school graduate without any postsecondary experience (formal education beyond secondary school).

Transfer Candidate—An applicant who was previously enrolled at Bloomsburg University or who was enrolled in a postsecondary educational program.

Admission **Freshmen Candidates**

Requirements and Process Secondary school students should submit an application to the university's Office of Admissions early in their senior year. (See section of catalog on *Admissions, Financial Aid, Fees.*) Secondary school graduates who have had no formal education beyond secondary school, must apply early in November to be considered for the spring semester or early in February to be considered for admission in the fall semester.

The following guidelines are used to evaluate freshman candidates for admission to the Bachelor of Science in Nursing program:

- a. 18 academic units from secondary school. These units must include a minimum of 4 units of English, 3 units of social studies, 2 units of mathematics (1 of which is algebra), and 2 units of science with a related laboratory or the equivalent, plus 7 other academic units in grades 9 through 12.

- b. B average or above in secondary school.
- c. A or B in secondary school chemistry.
- d. 950 SATs with a minimum of 450 in each portion.
- e. Rank in top 25 percent of secondary school class.

It is important that the candidate indicate nursing as the major. The Office of Admissions uses these guidelines in accepting freshman students directly into the nursing program. Nursing faculty consult with the Office of Admissions as necessary regarding candidates for admission. An interview is not required, but the Department of Nursing faculty are available to talk with prospective candidates.

Transfer Candidates

External Transfers

- a. Candidates with college credits from institutions other than Bloomsburg University must apply directly to the Office of Admissions. (See section of catalog on *Admissions, Financial Aid, Fees*. The Office of Admissions reviews the application and evaluates the credits from the transcripts submitted and if the candidate meets the requirements for transfer into the university, the application is forwarded to the Department of Nursing*. The department chairperson and the Student Admission, Progression, and Retention (SAPR) Committee review the application for admission to the baccalaureate nursing program. The minimum requirements beyond those for admission to the university are a QPA of 2.5 and evidence of a minimum grade of C in several prerequisite courses. Grades attained in prerequisite science courses outweigh the overall QPA. The chairperson of the Department of Nursing makes the decision relative to admission based on the committee's recommendation and available positions. Notification of acceptance is forwarded by the Admissions Office.
- b. Candidates who are registered nurses must apply directly to the Office of Admissions. Official transcripts from all previously attended postsecondary educational institutions including those colleges affiliated with the hospital schools must be included with the application. To gain admission to the nursing program, the candidate must be a graduate of a state-approved associate degree or diploma nursing program. The Office of Admissions reviews the application and evaluates any credits from the official transcripts submitted. If a candidate meets the admission guidelines for a registered nurse, their application is forwarded to the Department of Nursing*. The minimum requirements and process from this point is the same as for other external transfer students.
- c. Individuals seeking a second bachelor's degree are considered for admission to the nursing program by the Nursing Department's chairperson. An appointment with the chairperson is encouraged prior to submitting an application to the Office of Admissions for review. The guidelines for freshman admission to the nursing major are followed for such applicants. (See the catalog section on *Admission, Financial Aid, Fees*.)

* The Student Admission, Progression, and Retention (SAPR) Committee generally reviews transfer applications biannually. Applications must be submitted to the Office of Admissions by September for spring admission or by January for fall admission.

Internal Transfers

Students majoring in other academic disciplines at the university who wish to transfer into the nursing program must apply directly to the Department of Nursing's chairperson. They must meet the guidelines for freshman candidate admission as well as provide evidence of a QPA of 2.5. The candidate seeking transfer sends a letter to the chairperson of the Department of Nursing requesting admission into the nursing program. Upon receipt of the letter, the candidate is sent a "Student's Academic File Transfer Request" form which allows the candidate to obtain his/her academic file from the current department and deliver it to the Nursing Department. The record will then be reviewed by the Student Admission, Progression, and Retention (SAPR) Committee. From this point, the process is the same as for external transfers; however, notification of acceptance of internal transfer is sent from the chairperson of the Department of Nursing.

Academic Good Standing Policy

Students in the baccalaureate nursing program must abide by both the university's academic good standing and retention policies and the academic good standing policy of the Department of Nursing. To progress and be retained in the nursing program, the student must:

1. Attain a grade of C or better in:
 - a. Prerequisite natural science courses:
Anatomy and Physiology I, Anatomy and Physiology II, Introductory Chemistry, Introductory Chemistry Laboratory, Physiological Chemistry, and Introductory Microbiology
 - b. Prerequisite social sciences courses:
General Psychology, Life Span Psychology, and Principles of Sociology
 - c. All Code 82 nursing courses
2. Obtain a cumulative QPA of 2.50 (after 32 semester hours) to enroll in nursing courses in the sophomore year.

A student who does not meet the identified requirements for departmental academic good standing is required to satisfy the identified deficiencies by repeating the course before further progress in the nursing program can be attempted.

A student may repeat nursing courses only once. The university policy on the repetition of courses applies to the Department of Nursing.

The department reserves the right and the responsibility to develop procedural guidelines for the implementation of this academic good standing policy.

Recommendations concerning academic progression and retention are made to the Department of Nursing chairperson by the Student Admission, Progression, and Retention Committee. Based on these recommendations, students who do not meet the requirements for aca-

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demetic good standing are placed on departmental probation or are required to take a departmental leave of absence.

Departmental Academic Probation

Students who fail to meet the requirements of the policy for departmental academic good standing are evaluated by the Committee on Student Admission, Progression, and Retention and are immediately placed on departmental academic probation.

The department chairperson is responsible for notifying students who have been placed on probationary status.

Students must satisfy any identified academic deficiencies by repeating the course(s) before they can attempt any further progress in the nursing program.

Nursing courses may only be repeated once. University policy that pertains to the repetition of academic courses applies to the Department of Nursing.

No nursing student is allowed to be on departmental academic probation for two consecutive academic periods or for more than a total of three academic periods. If this should occur, the student is automatically requested to take a leave of absence from the department.

Departmental Academic Leave of Absence

A student who does not maintain departmental good standing requirements after one semester on probation or a total of three semesters on probation is automatically required to take a leave of absence from the department.

The department chairperson notifies students of such actions.

Students on departmental academic leaves of absence are ineligible to attend any courses offered by the department for a period of at least one academic year. A student on departmental academic leave will be guaranteed a position for no more than one academic year. Students seeking reinstatement to active departmental status work through the chairperson of the Department of Nursing.

Health Policy

Based on the requirements of the Pennsylvania State Board of Nursing and contractual agreements with agencies that provide clinical practice sites, the Department of Nursing requires students to have a yearly physical examination, specific diagnostic tests, and immunizations. Dental and eye examinations also are required upon admission. The University Student Health Center is responsible for student medical records. These records serve as verification of satisfactory health which is required for progression in the baccalaureate nursing program.

Nursing faculty reserves the right to counsel, suspend or dismiss students who, in their judgment, do not satisfy the requirements of scholarship, health, and personal suitability for nursing.

School of Graduate Studies

Peter J. Kasvinsky

Assistant Vice President for Graduate Studies and Research

Bloomsburg University offers 20 master's programs in the arts, business, science, and education through its School of Graduate Studies, as well as a joint doctoral program in education in cooperation with Indiana University of Pennsylvania, and 11 supervisory certificate programs.

Graduate study was inaugurated at Bloomsburg in 1960 with degree programs leading to the Master of Education tailored for teachers in service. In 1968, approval was granted to offer a program in history which lead to a Master of Arts and, in 1971, a program in biology leading to a Master of Science. More degree programs followed, a Master of Business Administration in 1976, a Master of Science in Nursing in 1983, and a Master of Science in Instructional Technology.

The objective of programs granting the Master of Education is to improve subject matter proficiency and develop mature, professional teachers. The objective of the Master of Arts programs is to advance the student's scholarship in an academic discipline. Programs leading to the Master of Science are designed to develop mature scholarship and competence, especially as they are related to the application of acquired knowledge. The Master of Business Administration provides increased knowledge and skills essential for quality performance in the business professions.

The university pledges itself to a continuous review of the needs for graduate education in the geographic region it serves.

Graduate classes taught during the academic year are usually scheduled in late afternoons, evenings, and on Saturdays in order to provide an opportunity for teachers and individuals engaged in other full-time occupations to further their education. Graduate courses also are offered for full-time students in the summer sessions.

Graduate Studies Catalog

A graduate catalog with comprehensive descriptions of courses, degree programs, university policies, faculty, and regulations are available upon request. To obtain a copy of the *Graduate Studies Catalog*, write to the Assistant Vice President for Graduate Studies and Research, 109 Waller Administration Building, Bloomsburg University, Bloomsburg, PA 17815.

School of Extended Programs

G. Michael Vavrek

Dean, School of Extended Programs

The School of Extended Programs, located at the Magee Center, 700 West Main Street, Bloomsburg, administers and coordinates many university-wide efforts to provide lifelong education for citizens of the region. The school's major components are: cooperative education and academic internships, international education, Magee Center, non-credit programs and services, nondegree and adult programs and service, regional development, Reserve Officers Training Corps: Air Force and Army, and summer session.

Cooperative Education and Academic Internships

Participation in the university's internship and cooperative education program can add an important dimension to a student's educational experience and future career plans. Students apply the theory learned in the classroom to situations occurring on the job in the workplace.

Because academic departments determine the credit and grade values for an internship or co-op experience, students must comply with any criteria required by their majors. Careful planning with the department's internship or co-op coordinator enables the student to schedule these experiences to compliment their academic program.

Cooperative education integrates classroom study with paid, planned, and supervised work experiences in the public and private sectors. Co-op students spend at least one semester and a summer working full time off-campus in a job usually related to their course of study at the university.

Internships are reserved for upperclassmen who customarily spend the summer before or a semester during the senior year involved in a project-oriented work assignment either on or off campus. While some interns are paid, others may serve in a volunteer capacity.

For information about cooperative education and academic internships, contact the director of cooperative education in Room 13, Ben Franklin Hall, (717)389-4678.

International Education

The international education program advises international students and coordinates university-wide efforts to provide study abroad experiences for students and faculty. Opportunities are provided to study for a semester, an academic year, or a summer at a foreign institution. In recent years, Bloomsburg students have spent part of the undergraduate years in Scotland, England, Ireland, France, Germany, Italy, Austria, Mexico, Ecuador, Brazil, and Japan.

Education majors have the opportunity to complete their student teaching experience in a foreign country while they add an international dimension to their professional development.

For additional information about international education, contact the School of Extended Programs.

Magee Center

The Magee Center was donated to the university by the Trustees of The Magee Foundation in 1988 as a conference center. Located at 700 West Main St., 1.5 miles west of the lower campus, the center offers executive-style meeting facilities for university and community groups. The building also serves as the headquarters for the university's School of Extended Programs which is responsible for the management of the center's meeting space and support services. For information on reserving these facilities, call (717)389-4420.

**Noncredit
Programs and
Services**

Noncredit mini-courses provide opportunities for individuals to gain specialized knowledge and/or skills for career purposes or to pursue cultural, recreational, and special interests through short-term experiences without credit.

These courses reflect expressed community needs. A nominal course fee is charged. Individuals who wish to enroll in the mini-course program are not required to file credentials; in most cases the only formality is that of registration with the School of Extended Programs for the course(s) desired. The catalog is available each semester.

The university serves the educational requirements of professional, educational, governmental, business, and other community groups by offering facilities for conferences and workshops including satellite teleconferences. In the summer, the university can accommodate conference groups overnight. Scheduling and hosting conference groups rests with the School of Extended Programs. Organizations should contact the school's office at (717)389-4420.

**Nondegree
Adult Programs
and Services**

Based on the assumption that learning should be a lifelong process, the nondegree credit program provides for enrollment by an individual in regular undergraduate credit courses without formal admission to the university as a degree candidate. Individuals are invited to use this program as an opportunity to review skills, acquire new knowledge, and pursue cultural and intellectual interests. Day and evening classes are held on the Bloomsburg campus and at off-campus locations.

Semester hours earned in courses taken as a nondegree student may later apply toward a degree program provided the course is deemed appropriate. Courses taken by nondegree students also can be used for a variety of designated certificate programs and to meet undergraduate deficiencies for graduate study. (For regulations that pertain to a nondegree status, Category 510, in the School of Graduate Studies, see the *Graduate Studies Catalog*.)

Advisement for nondegree students is provided at the School of Extended Programs office located in the Magee Center. Students can obtain information related to course selection, alternative ways to earn college credits, and financial aid. Adults without SAT scores can get advice on taking the 15 required semester hours to transfer into a degree program. Students enrolling in a Category 8 certificate program must have the endorsement of their nondegree adviser. Students pursuing teacher certification are advised through the College of Professional Studies.

Admission to the nondegree credit program is open to all secondary school graduates or persons holding a General Equivalency Diploma (GED). No standardized tests are required for admission.

Undergraduate nondegree students fall into eight categories. All categories require the submission of a nondegree admission application and a course selection form which can be obtained from the School of Extended Programs or the Admissions Office. In addition, applicants must submit any academic credentials that are applicable to the category for which they are applying. Admission forms and academic credentials for Categories 3 and 6 must be submitted to the Office of Admissions; students in all other categories submit their paperwork to the School of Extended Programs. The academic credentials requirement is listed after each specific nondegree category as follows:

Category 1: Adults who desire to enroll on a part-time basis. (Students enrolling to qualify for teacher certification, refer to Category 6.) Credential Requirement: Completed application for nondegree admission.

Category 2: Students enrolled at an institution of higher education who desire to complete coursework at Bloomsburg University for purposes of transfer to their home institutions. Credential Requirement: Completed application for nondegree admission. Students in this category should make certain that coursework pursued at Bloomsburg University satisfies course requirements at their home institution.

Category 3: Students approaching their final year of secondary school who wish to enroll at Bloomsburg University in conjunction with their last year of secondary school work or who are enrolled in a gifted program. Credential Requirement: Secondary school transcript, Junior year SAT scores, letters of recommendation from a secondary school counselor and two secondary school instructors in the academic area of intended pursuit.

Note: All credentials and a nondegree admission application must be submitted to the Office of Admissions.

Category 4: Students with academic deficiencies who are seeking a graduate degree at Bloomsburg University. Credential Requirement: Completed application for nondegree admission.

Category 5: Students with academic deficiencies who wish to pursue a program of academic recovery to qualify for undergraduate admission. Credential Requirement: Completed application for nondegree admission.

Category 6: Students with a baccalaureate degree interested in completing the requirements for Level I or Level II teacher

certification. Credential Requirement: Official transcript from the institution that granted a baccalaureate degree. (See an adviser in the College of Professional Studies for help with course selection.)

Note: All credentials and a nondegree admission application must be submitted to the Office of Admissions.

Category 7: Senior citizens (persons over 60 years of age) who are retired, legal residents of the United States, living in Pennsylvania. Students in this category may be admitted to a class on a seat available basis only. Credential Requirement: Proof of age, retirement, and U.S. residency, and completed application for nondegree admission.

Category 8: Students who are seeking a certificate program in any of the seven designated areas. Credential Requirement: Official secondary school transcript required before student can schedule.

Experiential Learning

In an effort to provide for those who have in the course of their life experience obtained knowledge and skills applicable to a college experience, Bloomsburg University provides the opportunity for experiential learning assessment. Through this process, life experiences are evaluated to determine their appropriateness and applicability for university credit. For details regarding this process, see the dean of the School of Extended Programs.

Attendance Fee Program

The attendance fee program allows individuals to attend classes without credit. Admission on this basis depends upon available space and the payment of a \$25 fee per course. Courses attended through this process do not generate college credit. A student desiring to attend classes in this manner must obtain verbal permission from the instructor before processing the form at the Business Office.

Certificate Programs

Designed specifically for nontraditional, career-oriented students, certificate programs represent packages of undergraduate credit courses that have been developed to meet the needs of those interested or working in the occupations associated with each program. Each program culminates in a certificate indicating the successful completion of each prescribed course and the overall program. Students must attain a minimum cumulative QPA of 2.0. Contact the School of Extended Programs' coordinator for adult advisement/services for information.

Certificate program titles include: Community Recreation Leader, Community Services, Environmental Planning, Gerontology, Public Administration, and Theater and Music.

Regional Development

Bloomsburg University is committed to extending its wide range of resources to the citizens of the central Susquehanna Valley. Since the School of Extended Programs is a focal point for outreach, its mission is

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to aid communication between the region and the university. Individuals and groups who think that the university may be able to help are encouraged to contact the school.

ROTC Programs For information about the U.S. Air Force and Army Reserve Officers Training Corps programs available to Bloomsburg University students and course descriptions, see the catalog section on *Military Science*.

Summer Session Undergraduate and graduate courses are offered in the summer sessions on campus and at off-campus locations. Students may schedule as many semester hours in a session as the number of weeks in that session. An overload requires the approval of the appropriate college dean in keeping with university policy on normal load and overload.

Undergraduate courses are open without formal application to regularly enrolled students of the university who wish to enrich or accelerate their programs of study or make up academic deficiencies. Others must apply for nondegree admission through Extended Programs.

Students from other colleges are admitted to summer session upon the filing of a simplified application form.

Graduate courses are offered for students who wish to continue their education at the master's level and/or to qualify for permanent certification. (See the *Graduate Studies Catalog*.)

Special workshops are scheduled to provide teachers in service and other professional groups with specific training programs at times and locations convenient to their schedules and places of employment.

The *Summer Session Bulletin*, which includes undergraduate and graduate courses, may be obtained from the School of Extended Programs or the Registrar's Office.

Admission, Financial Aid, Fees

Admission

Correspondence concerning admission and readmission should be addressed to: Director of Admissions and Records, Bloomsburg University, Ben Franklin Hall, Room 10, Bloomsburg, PA 17815-1301; or you may telephone (717)389-4316 between 8 a.m. and 4:30 p.m., Monday through Friday. Requests for applications received by mail or telephone are acknowledged by third class mail.

Admission Procedures

Complete and submit an official application to the Office of Admissions, together with a \$15 nonrefundable fee (payable to Bloomsburg University). Freshman candidates are urged to initiate the application process prior to Dec. 1 for the fall semester. Candidates for the spring semester should submit application materials by Oct. 1. Final dates for receiving applications in the Admissions Office for an entry period are subject to change without notice.

An official secondary school transcript should be requested from and sent by a guidance counselor directly to the director of admissions and records. The transcript should accompany the application.

An applicant must submit results of the Scholastic Aptitude Test (SAT) of the College Board. It is the responsibility of the applicant to take the test and to request that the scores be forwarded directly from the Educational Testing Service to Bloomsburg University. Bloomsburg University's code number for the College Entrance Examination Board is 2646. A photostatic copy of the student's SAT results on an official secondary school transcript also is acceptable. No other standardized test serves as a substitute for the SAT.

Freshman candidates must apply for admission in one of the following categories: Allied Health Sciences, Arts and Sciences, Business Administration, Business Education, Computer Science, Interpreting for the Deaf, Nursing, Teacher Education. Students may petition for an internal curriculum change after enrollment. Transferring into high-demand programs is possible but not guaranteed.

Entrance Standards and Notification Procedures

The university does not prescribe fixed secondary school course requirements for admission. It does, however, strongly encourage all students to take a college preparatory program in secondary school. Admission to Bloomsburg University is based on an applicant's academic and personal qualifications. Decisions are reached without regard to race, color, creed, national origin, sex or physical handicap. Acceptance is determined by the Admissions Committee upon evaluation of secondary school preparation, scores on the Scholastic Aptitude Test, personal characteristics, and institutional capacity.

The Admissions Committee reviews thousands of applications annually. The majority of notifications are made during December, January, and February.

Incoming fall freshmen must submit a nonrefundable advance deposit of \$255 for the basic fee, housing, and community activities by March 1 to secure their enrollment at the university.

Attendance at a three-day summer orientation is required for new students. A participatory fee of \$45 is charged for food and housing expenditures and a one-time administrative fee of \$20 appears on the first billing statement from the university. These fees are subject to change without notice.

Health Record

An applicant who is offered admission must submit a medical examination report form prior to enrollment. The appropriate examination report form is forwarded to the applicant upon receipt of advance deposits. Final permission to enroll is contingent upon a favorable review of the applicant's medical history by a university physician.

Educational Opportunity Programs and Act 101

The goal of these programs is to equalize educational opportunity for students regardless of their economic background or status. Any individual with a secondary school diploma or certificate of equivalency is eligible to apply for admission to these programs. Nontraditional criteria are applied in estimating the potential success of an applicant when it appears that the environmental background may have adversely affected grades and/or standardized test scores. The director of admissions and records may require an applicant for these programs to file supplementary information as needed for proper consideration.

Most students admitted are expected to participate in a summer program prior to the first semester of their attendance, where special assistance in tutoring and counseling is given to address specific academic, financial, and social programs. Permission to be exempted from this requirement can only be granted by the director of these programs.

Opportunities for financial aid at Bloomsburg University are outlined in a publication distributed annually to current and prospective students by the Office of Financial Aid in Ben Franklin Hall. (See the section of the catalog on *Financial Aid* for details.)

Inquiries should be sent to the director of ACT 101/EOP or the director of admissions and records. (See the catalog section on *Instructional Development* for course offerings.)

Early Admission

Outstanding students may be considered for admission prior to their secondary school graduation. In addition to strong achievement and high aptitude, applicants for early admission must have the endorsement of their secondary school to receive consideration. College credit earned may apply toward the requirements for a secondary school diploma. It is recommended that any student interested in early admission arrange an interview with the director of admissions and records.

University Scholars Program

The University Scholars Program provides a special academic experience for a preselected group of freshmen and sophomores. The program provides an appropriate challenge for students who have distinguished themselves educationally, have superior intellectual ability, set high

standards for themselves, and are seriously pursuing a quality college education.

The scholars curriculum is designed to foster the growth of intellectual independence, creativity, and initiative; enhance analytical thinking and problem-solving abilities; augment interpretative abilities and communication skills; and develop a sense of “common bonding.” The curriculum accomplishes these ends by offering a variety of courses and course designs including symposia, forums, independent study, and experiential study that require extensive reading, writing, and in-depth study and research. The scholars courses are taught by university faculty who are designated scholars faculty due to distinguished scholarship, outstanding performance as teachers, and ability to relate to students.

The Scholars Program requires the completion of 24 semester hours of General Education credit in designated scholars courses within the first two academic years. The remainder of courses in these years is selected from regular course offerings to satisfy major, minor, and other general education requirements. Scholars courses, while they satisfy general education requirements, are specially redesigned to emphasize the integration of interdisciplinary knowledge, concepts, and skills.

Although university scholars have many special programs and services at their disposal, they also will be fully integrated into the mainstream of the campus community so that they may enjoy the same dimensions of university life that other students experience including residence hall living, a wide array of cultural activities, campus leadership opportunities, sporting events, and other cocurricular programs.

Eligibility for Admission—Scholars Program eligibility is based upon high school achievement, a ranking in the top 20 percent of the graduation class, and SAT scores of 1100 or more with a minimum score of 500 on both verbal and math subtests. Once eligible, high school seniors or graduates are selected on the basis of their application, essay, reference letters, and interview. Although high academic achievement provides eligibility, personal characteristics and extracurricular involvement are important in the selection process.

Retention—Students admitted to the University Scholars Program must maintain a minimum cumulative QPA of 3.0 to remain in the program. Students who do not attain this QPA in the first semester will be retained provisionally in the program with the stipulation that the 3.0 must be attained overall before the sophomore year.

At the completion of the program, a student who has maintained a minimum QPA of 3.50 or higher will be designated a University Scholar on his/her permanent record as well as on the diploma upon graduation.

At the end of the sophomore year, students may wish to apply to the upper-level Honors Program in their major discipline to continue in enhanced academic programs during their final two years.

Transfer Students

An applicant who previously attended or at the time of application is enrolled in another college or university is a transfer applicant. Transfer

admission occurs three times during the year: fall, spring, and summer. Applications for the fall semester and summer sessions should be complete and on file in the Admissions Office prior to March 15. Applications for the spring semester should be complete and on file by Oct. 15. Nursing candidates for the fall semester should have completed applications on file prior to Feb. 1.

Requirements necessary to make a file complete for a transfer candidate are: an official secondary school transcript or a GED (General Equivalency Diploma); official transcripts from any postsecondary school attended; and the \$15 application fee. Scholastic Aptitude Test (SAT) results or American College Test (ACT) results must be submitted if the applicant has not completed 24 or more credits at a postsecondary institution. Official college transcripts from each school attended should be sent to the director of admissions and records regardless of whether or not credit was earned at the other institution(s).

A transfer student may be considered for admission if he/she is certified as holding good standing academically and otherwise in the college last attended and having an overall Quality Point Average (QPA) of 2.0 or better on a 4.0 system.

Although a 2.0 QPA is the minimum acceptable for transfer, to be competitive for admission to most programs, a QPA of 2.5 or higher is needed. The College of Business requires a 2.75 QPA for admission. The degree programs in mass communications, nursing or education require students to have a minimum QPA of 2.50 for entrance to the major.

Transfer applicants who have completed 30 semester hours at an institution of higher education must select a major upon entering the university. They may not enter as undeclared majors.

Credits are deemed transferable if earned at an institution that is accredited by the Middle States Association of Colleges and Schools/Commission on Higher Education or its regional equivalent providing Bloomsburg University has equivalent courses. Students are informed of the tentative number of credits that may be transferred on their acceptance letter. Official transfer evaluations are completed when the student pays the advanced deposits. These transfer credit evaluations are then reviewed by the department chairperson who renders final approval of the evaluation. A maximum of 64 credits may be transferred from an accredited two-year college.

Students enrolled in the School of Extended Programs at the university must have completed 15 semester hours of specific General Education requirements to be considered for admission. A minimum QPA of 2.4 also is required.

Review of transfer applications is done on a rolling basis, with the exception of nursing applicants whose files are reviewed by the Student Admission, Progression, and Retention Committee of the School of Health Sciences.

An orientation for transfer students is held prior to their enrollment. Students are notified by the Orientation Office concerning specific information.

Readmission

Students failing to register for the next semester must apply for readmission. Nondegree students may continue to register without readmission provided their next registration is within four semesters of their last enrollment. It is suggested that students apply early for readmission.

Readmitted students are responsible for the graduation requirements and academic policies that exist at the time of their reentrance.

The director of admissions and records may require an applicant for readmission to file a letter containing such supplementary information as is needed for proper consideration.

Students under academic dismissal are ineligible for readmission for one calendar year. They should present evidence of successful achievement at another college or university as part of their application for readmission.

Readmitted students who were formally dismissed for academic deficiency have two final grading periods in which to regain minimum academic progress or good standing. If dismissed the second time, these students may not attend the university for additional degree or nondegree credit study.

Advanced Placement and CLEP

A student may receive a maximum of 64 semester hours by examination or experiential learning. Credit may be awarded for successful completion of institutional examinations and/or approved external examinations. The university recognizes two external examination programs: the College Level Examination Program (CLEP) and the Advanced Placement Program of the College Board.

The minimum score of awarding credit for general CLEP examinations is the 50th percentile of the sophomore national norms. Credit is awarded for the subject CLEP examinations for achievement at or above the mean score achieved by students in the national norm sample who earned the grade of C in a regular college course in the subject. Minimum scores for awarded credit and the amount of credit granted can be secured by writing the director of admissions and records.

A score of 4 or 5 on an advanced placement examination exempts a student from the introductory course in the tested area and gives credit. Credit and advanced placement are awarded in calculus for a grade of three. A score of three in all other areas exempts a student without credit from the introductory course. Advanced placement may be granted in English Composition after consideration of the applicant's verbal SAT scores, Test of Standard Written English results, and secondary school achievement.

Advanced Standing for Educational Experience in Military Service

The recommendations of the American Council on Education as stated in its *Guide to Evaluation of Educational Experience in the Armed Services* are: The applicability of such credit to the requirements of the student's curriculum is determined by recommendation of the dean of the college and confirmation by the provost and vice president for academic affairs.

United States Air Force-I courses validated through college-level examinations are subject to the provisions for acceptance of correspondence courses. Qualified veterans enrolling in military science are

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eligible for placement into the advanced course based on their prior service and desire to seek a commission through the Reserve Officers Training Corps program.

Temporary Withdrawal/ Leave of Absence

A student may request a temporary withdrawal for a specified period by securing the appropriate forms at the Center for Counseling and Human Development. To be eligible for a temporary withdrawal, the student must submit completed forms to the Office of Admissions for processing. A student must be in academic good standing or making minimal progress toward good standing and must request the temporary withdrawal prior to the registration date of the intended period of absence.

A student on a temporary withdrawal is assured a place in the semester designated for return provided the instructions that are part of the temporary withdrawal agreement are fulfilled, and advance deposits are submitted at the time designated by the director of admissions and records.

A student who returns from a temporary withdrawal of a calendar year or less in duration is responsible for the graduation requirements and academic policies that applied at the time the temporary withdrawal was requested. A student who returns from a temporary withdrawal of more than one calendar year duration must satisfy the graduation requirements and academic policies which exist at the time of return and is then classified as a readmitted student. Application materials and instructions may be secured from the Office of Admissions.

Second Baccalaureate Degree

Application materials and instructions for obtaining a second bachelor's degree at Bloomsburg University may be secured from the Office of Admissions. There is an application fee of \$15. To qualify, an applicant must hold a bachelor's degree from an accredited college or university.

This second degree track requires a student to earn a minimum of 30 semester hours in undergraduate courses while in residence at the university. All curriculum requirements for the second degree must be satisfied and free elective credit taken, if necessary, to complete the minimum of 30 semester hours.

If there is a replication of a required course(s) in the two baccalaureate programs, the course(s) cannot be applied as part of the 30-semester-hour requirement for completion of the second degree.

The applicant must provide the department chairperson from the discipline they wish to pursue with a copy of their college transcript and a second degree application form. Pending a favorable review of the applicant's academic credentials, the chairperson signs the application and forwards it and the official transcript to the Admissions Office.

International Students

Residents of foreign countries should initiate their application well in advance of the semester they plan to enroll. Non-U.S. citizens who are not resident aliens need to submit a special application for international students. This application may be obtained by writing the director of admissions and records. Students whose native language is other than

English are required to submit the results of the Test of English as a Foreign Language (TOEFL) administered by the Educational Testing Service in Princeton, N.J. The minimum acceptable TOEFL score is 500. Those students who fail to earn a score of 500 are urged to investigate one of the ESL Language Centers that are located throughout the United States. Upon completion of the ESL program, the minimum QPA acceptable to supplement a TOEFL score of under 500 is a 2.5.

Certificates of educational training should be accompanied by certified translations if they are presented in a language other than English. Credentials should be supplemented by brief course descriptions of subjects successfully completed.

Students are required to submit a notarized financial statement that would indicate their ability to finance their educational and living expenses for the duration of their college career. Due to financial limitations, students who are unable to provide for their educational and living expenses will not be offered admission to Bloomsburg University.

Campus Visits

Group interviews are held regularly on campus. Arrangements can be made to attend a group interview by contacting the Office of Admissions at (717)389-4316.

Three Saturday Open House days are held on the campus during the academic year. Open House programs consist of a general meeting with admissions staff and administrative personnel, a question-and-answer session, a campus tour, lunch (at a nominal cost), and meetings with faculty from various academic departments. Participation in an open house day may be more meaningful than a group interview because prospective students have the opportunity to meet directly with members of the university faculty. The dates for the Open House programs are: Oct. 19, 1991; Nov. 16, 1991; Jan. 25, 1992; October 1992; November 1992; and January 1993. These programs are held in Mitrani Hall of Haas Center for the Arts beginning at 10 a.m.

Off-campus Visits

Each year, representatives from the Office of Admissions visit secondary schools and community colleges throughout Pennsylvania and in neighboring states. They also participate in approximately 100 college night/career day programs including the Philadelphia, Pittsburgh, and New Jersey, National College Fair programs. Prospective applicants are encouraged to check with their school or community college counselors to determine if a admissions representative will be visiting their institution or attending a nearby college night program.

Financial Aid

There are four kinds of financial aid available at Bloomsburg University: grants, student employment, loans, and scholarships. All applicants for financial aid must submit the Pennsylvania State Grant and Federal Student Aid Application to the Pennsylvania Higher Education Assistance Agency. Eligibility for all financial aid programs administered at

the university is determined on the basis of the information submitted on the Pennsylvania State Grant and Federal Student Aid Application. It is important to comply with application deadlines and to be sure the information submitted is complete and accurate. There is no processing fee for this application.

If a student wishes to participate in the Student Employment Program at Bloomsburg University, an additional application must be submitted directly to the Financial Aid Office. The application procedure for the Stafford Loan also differs. (See the subsection under *Loans* on page 36 for details.)

The financial aid process can be discouraging if applications are not completed properly. Answer the application questions carefully and check all work before submitting the forms to the appropriate agency. If after completing the application, a family experiences a significant reduction in income, for example, loss of financial support due to death, divorce, or prolonged unemployment, the student should notify the Financial Aid Office immediately, either in writing or in person, in order to be informed of any available financial aid.

A deadline is imposed for submitting the Pennsylvania State Grant and Federal Student Aid Application, so the university may inform you at the earliest possible time of your "financial aid package." By not complying with the March 15 deadline, a student may miss the opportunity to be considered for financial aid programs administered by the university. The Pennsylvania State Grant Program has an application deadline of May 1 of each year.

Students must reapply annually. Financial aid is not automatically continued from one year to the next.

To be eligible for financial aid at Bloomsburg University, students must be citizens or permanent residents of the United States. Persons in the United States on student visas (F-1 or F-2) are not eligible for federal student aid.

To receive financial aid, students must: be making satisfactory progress toward completion of their course of study; not be in default of a Perkins Loan or a Stafford/Guaranteed Student Loan; and not owe a refund on a Pell Grant or a Supplemental Educational Opportunity Grant.

Students do not automatically transfer their financial aid from one institution to another. Transfer students must submit an official Financial Aid Transcript to the university's Financial Aid Office to document their financial aid record at all institutions the student has attended. No financial aid may be processed until this information is received.

Refund Policy

The refund policy for financial aid recipients at Bloomsburg University has been established in accordance with regulations governing the Pennsylvania State System of Higher Education, the Pennsylvania Higher Education Assistance Agency, and Title IV Financial Aid Programs.

Charges for the basic fee, student union fee, room and board, and health service fee are determined on a percentage basis through the fifth

week of classes. Except for minimum forfeit of advanced deposits, refunds for tuition will be based on the following schedule applicable after the first full class day:

80%	1st through 2nd week
70%	3rd week
60%	4th week
50%	5th week

No refund after the 5th week

Students who withdraw for medical reasons after the fifth week of classes will have all charges adjusted on a weekly basis. Nonmedical withdrawals filed after the fifth week merit no refund on the basic fee, student union fee, health service fee, or room charge. Meal charges are computed on a weekly basis.

Financial aid will be paid to the student or credited to the student's account after the refund period has expired. All requests for refunds must be in writing and directed to the Business Office.

Satisfactory Progress

Students must maintain satisfactory progress toward a degree in order to receive financial aid from the programs authorized by Title IV of the Higher Education Act and other programs. At Bloomsburg University, these programs are: Pell Grant, Supplemental Educational Opportunity Grant, Athletic Grant, Fred Smith Scholarship, Board of Governors Basic Fee Waiver, Scholars in Education Award, Paul Douglas Teacher Scholarship, College Work-Study, University Employment (State), Perkins Loan, Stafford Loan (formerly GSL), Parent Loan for Undergraduate Students, and Supplemental Loan for Students.

Satisfactory Progress Policy—For financial aid purposes, minimum progress toward the completion of a degree requires that a continuously enrolled full-time student earn at least 24 semester hours in a 12-month period unless extraordinary circumstances exist. Students in the university's Summer Freshman Program, who are registered for less than 12 semester hours during the summer, are required to earn 21 semester hours during their freshman year. Students enrolled full-time for one semester are expected to earn at least 12 semester hours. Part-time and graduate students must earn semester hours as prescribed below:

1-8 semester hours—Half of all semester hours attempted must be earned.

9 or more semester hours—Two-thirds of all semester hours attempted must be earned.

Students must meet a qualitative measure of progress as described:

Semester Hours Earned Including Grades of P and Transfer Credits	Cumulative QPA Required for Minimal Progress
1 - 16	1.25 - 1.99
17 - 32	1.65 - 1.99
33 - 48	1.85 - 1.99
49 - 64	1.95 - 1.99
65 or more	2.00

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If a student has earned 24 semester hours but has not attained the required QPA, financial aid may be received for additional probationary semesters upon review by the director of financial aid.

An incomplete grade, a failing grade or a withdrawal from a course are counted as zero semester hours earned.

Course repeat grades are only counted toward the minimum satisfactory progress standard if semester hours were actually earned.

Note: Repeat of a D grade would not be counted as semester hours earned in two different semesters.

Time Frame for Programs of Study

Full-time undergraduate students are expected to complete their programs of study within five years unless extraordinary circumstances exist, i.e., transfer, change in major. The total semesters for completion of degree programs for part-time students are extended proportionately.

Monitoring, Termination, and Reinstatement

The Financial Aid Office monitors satisfactory progress each semester. Students are notified that aid is being canceled if the number of semester hours earned during the fall and spring semesters and summer sessions does not meet satisfactory progress requirements.

Students who are academically eligible to continue their enrollment but do not meet the criteria for financial aid, may continue to attend classes at their own expense and seek financial aid when their academic credentials have improved.

Students who have been academically dismissed for at least one year will be considered making satisfactory progress for financial aid purposes upon achieving reinstatement to the university.

Appeals—Any student whose financial aid has been canceled because of unsatisfactory progress, may appeal this decision. Appeals must be in writing and should be forwarded to the director of financial aid.

Financial Need

Students have to establish “financial need” to qualify for “need-based” Title IV programs such as Pell Grant, Supplemental Educational Opportunity Grant, Stafford Loan, Perkins Loan, and College Work-Study. An individual’s “need” is the difference between what it costs to attend college and what the student and their family can contribute. In capsule, the formula for computing financial need is:

$$\begin{array}{l} \text{Costs of Going to College} \\ \text{(tuition, fees, books, supplies, room/board, and personal expenses)} \\ \text{Less — The Family's Contribution} \\ \text{(the amount you and your parents are able to contribute as calculated} \\ \text{by a federal financial aid formula)} \\ \text{Equals = Financial Need.} \end{array}$$

Financial Aid Packages—Financial aid comes in the form of grants, scholarships, loans, and work aid. If a student is eligible for aid, she/he is usually offered a “financial aid package,” an outline of the types of financial aid a student will receive, which is cited in an awards letter.

**Grant and
Scholarship Aid**

Pell Grants—This federal grant program is available to undergraduates (pursuing their first baccalaureate degree) enrolled at least half-time in a degree program. Grants will range from \$200 to approximately \$2,400. Apply by using the Pennsylvania State Grant and Federal Student Aid Application available at the Financial Aid Office or from your secondary school guidance counselor.

Note: Applicants will receive a Student Aid Report directly from Pell Grants which must be submitted to the Financial Aid Office.

Pennsylvania State Grants—The Pennsylvania State Grant Program is available to full-time undergraduate degree students who are residents of Pennsylvania. These state grants range from approximately \$100 to \$2,200 per year at Bloomsburg University and may be used over four years or eight semesters.

To apply for this program, students must use the Pennsylvania State Grant and Federal Student Aid Application. Applications are available at high school guidance offices and college financial aid offices and by contacting PHEAA, Grant Division, Towne House, Harrisburg, PA 17102. The application deadline is always May 1.

Other State Grants—Students residing in states other than Pennsylvania are encouraged to investigate the availability of grant assistance from their respective states. A listing of the names and addresses of state grant agencies is available from the Financial Aid Office.

Supplemental Educational Opportunity Grants (SEOG)—SEOG is a federal grant for students of exceptional financial need who would not otherwise be able to continue their education. Students are eligible to apply if they are enrolled or accepted as full-time degree students. To apply, submit the Pennsylvania State Grant and Federal Student Aid Application to PHEAA, Harrisburg, Pa., in mid-March.

**Bloomsburg
University
Scholarships**

Undergraduate students may apply for a Bloomsburg University scholarship if they have completed a fall semester at the university as a full-time student and they are enrolled for the following academic year. Scholarships are based on cumulative average, extracurricular activities, and/or financial need. Unlike other aid programs, scholarships consider grades and activities foremost.

The application deadline is usually Feb. 8. Scholarship applications can be obtained from the Financial Aid Office. These scholarships are not available for summer study. Award recipients are selected by the Financial Aid Committee and announced at an awards ceremony in the spring.

Alumni Association Scholarships and Grants are:

Arts and Sciences

O.H. and S.H. Bakeless Alumni Grant, \$300

John A. Hoch Alumni Grant, \$300

Business

Harvey A. Andruss Alumni Grant, \$300
Walter S. Rygiel Alumni Grant, \$300
Mildred Eaton Levitt Alumni Grant, \$450
Angelo Scheno Scholarship, \$500
Norman Hilgar Grant, \$425
Gerald Bacon Memorial Award, \$300

Professional Studies

R. Bruce Albert Alumni Grant, \$300
Boyd F. Buckingham Alumni Grant, \$300

Athletics

Lucy McCammon Alumni Grant, \$500
Jan Hutchinson Alumni Grant, \$500
Eleanor Wray Alumni Grant, \$500
E. H. Nelson Alumni Grant, \$700
Francis "Doc" Sell Alumni Grant, \$700
Dick Lloyd Alumni Grant, \$700
Lamar Blass Memorial Athletic Grant, \$300
Dorothy Q. and Lloyd S. Wartman Memorial Scholarship Fund,
2 - \$300
Ronald Russo Alumni Scholarship, \$500
J.M. Auten-Women's Intramural Sports Scholarship, \$200

Band

Howard F. Fenstemaker Alumni Grant, \$300

Communication Disorders

James Bryden Alumni Grant, \$500
Emily Reuwsatt Alumni Grant, \$500

Elementary Education

Ann J. Jarrett Alumni Grant, \$450
A. Kenneth and Mary Betterly Maiers Scholarship, \$500

English

Margaret Bittner Parke Alumni Scholarship, \$500
Cecil Seronsy Alumni Scholarship, \$450

History

Erma M. Hefferan Alumni Scholarship, 2 - \$500
Erma M. Hefferan Alumni Study Abroad Scholarship, \$100

Nursing

Mr. and Mrs. Earl F. John Award, \$500

General

President's Alumni Grant, \$300

Ercel D. Bidleman Alumni Grant, \$300
Kimber Kuster Alumni Grant, \$300
Class of 1968 Alumni Grant, \$200
Class of 1933 Alumni Grant, \$400
Mary L. Frymire Kirk Alumni Grant, \$200
Anna Lowrie Welles Grant, \$100
Timothy M. Miller Alumni Grant, \$500
Rita M. Guerrieri Memorial Scholarship, \$300
Lydia Repella Jenkins Scholarship, \$500
Editha Ent Adams Scholarship, \$100

Veterans

Veterans Memorial Scholarship, \$1,000

Scholarships serviced through the university's Office of Financial Aid are:

Benton Area High School Scholarship, 2 - \$2,000
Baby Bloomer Scholarship, 2 - \$1,000
Hazleton General Hospital Nursing Scholarship, 2 - full tuition
Ken Gross Scholarship, 2 - \$1,000
Richard A. Benefield Scholarship, \$1,000
Bernard and Frances Young Scholarship, \$500
Mount Carmel Scholarship, 2 - \$500
Helene Robertson Nursing Scholarships, 2 - \$500
Joseph W. Matlavage Award, \$500
Student Memorial Scholarship, \$500
William A. Turnbaugh Scholarship, \$500
Robert D. Warren Scholarship, \$1,000
Gary Holland Scholarship, \$1,000
Eunice Davilla Scholarship, \$900
Mary Wilson Scholarship, \$900
Dave Bittner Scholarship, \$150
Leon Kosubal Scholarship, \$150
David Rathkey Scholarship, \$150
Al Decker Scholarship, \$75
John J. Serff Sr. Memorial Scholarship, \$500
Clyde S. Shuman Sportsmanship Award, \$400
Francis Fay DeRose Memorial Scholarship, \$300
Elizabeth Andruss Scholarship, \$300
"Cotton" Franklin V-12 Scholarship, \$300
Columbia County Medical Auxiliary Memorial Scholarship, \$250
Early Childhood Education Scholarship, \$200
Elton Hunsinger Scholarship, \$200
Joanne Thomas Memorial Scholarship, \$200
Phi Sigma Pi Scholarship, \$100

Scholarships offered through university departments or offices other than the Financial Aid Office are:

Mitrani Scholarship, 20 - \$1,500

(One Mitrani Scholarship is designated for a HOBY ambassador.)

Board of Governors Basic Fee Waiver

Robert Redman Scholarship, \$500

Ronald Russo Award, \$500

Eli McLaughlin Scholarship, \$500

James H. McCormick Scholarship, \$500

John F. Cook Art Student Award, \$500

Chip Callahan Memorial Scholarship, \$50

Fred G. Smith "Golden Rule Trust Fund" Scholarship

Mary Weaver Evans Scholarship, \$300 (approximate)

Department of Music Service Scholarships

Sylvia H. Cronin Memorial Music Scholarship

Brenda K. Hafner Memorial Music Scholarship

Mabel C. Jury Music Scholarship Fund

The Ginny Thornburgh Foundation Scholarship Award

Student Leadership Scholarship, several - \$300 (approximate)

University Scholars Program

Nursing Awards

Vernon Rochester Award, 1 - \$1,000 or 2 - \$750

Dr. Emory W. Rarig Jr. Pi Omega Pi Award, \$200

Bloomsburg Chapter of the Professional Secretaries International
Scholarship, 2 - \$50

APSCUF Scholarship, 2 - \$175

Army ROTC Scholarships/Stipends—Army ROTC Scholarships are available to qualified students on a competitive basis for three-year and two-year periods. For information, contact the Army ROTC Office, located on upper campus, at (717)389-2123.

Air Force ROTC—Students who wish to investigate financial aid opportunities offered by the Air Force ROTC Program should contact the Department of Aerospace Studies, Wilkes University, Wilkes-Barre, PA 18766; (717)829-0194.

Loans

The costs of higher education for any given year include tuition, fees, room, board, books, transportation, and miscellaneous expenses. A student needs to consider all these expenditures when determining how to finance their education. In addition to loans, students should investigate and apply for other types of financial aid including grants, scholarships and work-study programs. Families need to decide how much in personal resources they can commit to these educational costs. Money from savings, assets, and summer jobs can reduce the amount of loan assistance that a student may require. Once these factors have been assessed, a student can accurately determine an appropriate borrowing level.

Students should bear in mind that a loan is a serious financial obligation. Upon completion of their degree, students will probably join the work force at an entry-level salary. Expenses for housing, clothes, car, insurances, and student loan payments will place great demands on this

salary. Default on a student loan may adversely affect an individual's credit rating, result in legal action pursuant to collection, or cause income tax refunds or salary to be garnered.

Perkins Loan—Perkins is a federal loan program that is need-based and administered by the Financial Aid Office. To be eligible, a student must be enrolled or accepted as a full-time degree student and have financial need. Perkins loans range from \$200 to \$2,000 per academic year and are usually packaged with other forms of aid (i.e., Pell Grant, SEOG or CWSP).

Perkins is a 5 percent simple-interest loan that requires repayment to begin nine months after the student terminates her/his education. The Perkins Loan Program contains provisions whereby a student may be eligible to have the loan canceled over a five-year period; i.e., a student who works with the handicapped or in a geographic area that is classified by the U.S. Department of Education as a poverty area.

To apply for a Perkins Loan, submit the Pennsylvania State Grant and Federal Student Aid Application to PHEAA, Harrisburg, Pa., no later than March 15.

Stafford Loan Program—The Stafford Loan Program is designed to help students finance their educational objectives by combining the maximum benefits of state and federal student aid loan programs through a single and convenient application process. The Stafford Loan Program combines two loans: the subsidized Stafford Loan and the non-subsidized Stafford Loan.

A subsidized Stafford Loan is one on which the federal government pays the interest while the borrower is in school. Eligibility for a subsidized Stafford Loan is based on family income and financial need established by standards set by the federal government. A nonsubsidized Stafford Loan is one on which the borrower is responsible for payment of the interest during the in-school period but interest rates are below the standard commercial rates.

When an individual files a PHEAA Stafford Loan application, their maximum eligibility for the subsidized Stafford Loan is determined first, so they can borrow as economically as possible. If a student qualifies for all or part of the subsidized Stafford Loan, a subsidized loan is issued by their bank or other lending institution. If they do not qualify for the full subsidized Stafford Loan, then PHEAA, as the lender, offers a nonsubsidized Stafford Loan for the difference.

For example, a first-year undergraduate who is eligible for a \$1,000 subsidized Stafford Loan would be offered a \$1,625 nonsubsidized loan to reach the \$2,625 annual maximum. Or, a graduate student who is eligible for a \$2,000 subsidized Stafford Loan could be offered a \$5,500 nonsubsidized loan to reach the \$7,500 annual maximum. If a student fails to qualify for any subsidized loan, they are offered the full amount on a nonsubsidized basis (*if the program is funded*).

Applications for the Stafford Loan Program are available from the Pennsylvania Higher Education Assistance Agency in Harrisburg, local

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banks, savings and loan, and credit unions. These loans are available to Pennsylvania and out-of-state residents.

The annual and aggregate limits for Stafford Loans are:

Academic Grade Level Limits	Aggregate Limits
\$2,625 1st-year undergraduate	
\$2,625 2nd-year undergraduate	
\$4,000 3rd-year undergraduate	
\$4,000 4th-year undergraduate	
\$4,000 5th-year undergraduate	\$17,250
\$7,500 graduate level	* \$54,750
<i>*includes undergraduate borrowings</i>	

An academic year of advancement in the student loan program is defined by the number of semester hours completed by the student. These levels are:

- Year 1 — 0-31 semester hours
- Year 2 — 32-63 semester hours
- Year 3 — 64-95 semester hours
- Year 4 — 96 or more semester hours
- Year 5 — Graduate student

Note: The preceding information conforms to the university's requirements for Freshman, Sophomore, Junior or Senior standing.

- For any Stafford Loan made to a new borrower, the interest rate is:
- 8 percent during the period beginning on the date of disbursement of the loan and ending four years after the start of repayment;
 - 10 percent on the unpaid principal balance of the loan during the remainder of the repayment period.

Eligibility for a Stafford Loan is restricted to the difference between total educational costs and other financial aid received by the student for the enrollment period for which the loan is applied, minus expected family contribution. Included in educational costs are tuition and fees, room and board, books and supplies, personal student expenses, and transportation. Student financial aid includes funds received from other student loans, federal college work-study, and any type of scholarship, grant, or fellowship. The expected family contribution is determined by the federal need-analysis formula.

Other Guaranteed Student Loans—Most other states also administer programs of Stafford Loans with similar conditions to that of Pennsylvania. Interested students should contact the Bloomsburg University Financial Aid Office regarding Stafford Loan programs available to students residing in other states.

PLUS (Parent Loan for Undergraduate Students)—Parents of dependent undergraduate students, independent undergraduate students or graduate students are eligible to borrow under the PLUS Program. Repayment of principal and interest begins within 60 days after the

disbursement of the loan, and interest is currently set at 12 percent. PLUS applications may be obtained at most local lending institutions.

**Student
Employment**

Earnings gained through part-time employment can be a substantial source of additional income to defray college expenses. This work experience may also be invaluable in developing skills needed for future full-time employment. Students may work a maximum of 20 hours per week at \$4.25 per hour; however, full-time employment is permitted during the summer under certain conditions.

Note: A work-study award is an authorization to work, not a guarantee of employment. The student is responsible for finding a job.

College Work-Study Program (CWSP) On Campus—This program provides jobs for students who have financial need as calculated by an approved needs analysis service. Students may apply if they are enrolled for at least 6 semester hours in a degree or eligible certificate program.

Submit a Pennsylvania State Grant and Federal Student Aid Application to PHEAA, Harrisburg, Pa., and an application for student employment to the Financial Aid Office. The employment application is available from the Financial Aid Office.

The pay rate is the prevailing minimum hourly wage with a maximum of 20 hours per week while attending classes. Graduate students are currently compensated at \$4.25 per hour.

Limited full-time summer work on-campus is available to students who have need and who normally attend the university on a full-time basis but are not enrolled in summer classes. Award letters and job placement instructions are sent by the Financial Aid Office to applicants eligible for on-campus summer employment as soon as possible after April 30.

**State Student
Employment
Program**

The State Student Employment Program differs from the College Work-Study Program in that the student does not have to demonstrate need for the funds earned through employment. However, applicants must submit the Pennsylvania State Grant and Federal Student Aid Application to PHEAA, Harrisburg, Pa., and an application for student employment to the Financial Aid Office by March 15. Students who do not qualify for the College Work-Study Program frequently can be employed under the State Student Employment Program.

The pay rate is \$4.25 per hour with a maximum work load of 20 hours per week while attending classes. Pay rates are subject to change without notice in accordance with changes in the Minimum Wage Law.

Limited full-time summer jobs on campus are available to students whose specific job skills are needed by the university and who normally attend Bloomsburg University on a full-time basis, but are not attending summer classes. Award letters and job placement instructions are sent by the Financial Aid Office to applicants eligible for on-campus summer employment as soon after April as possible.

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Summer Off-Campus Work-Study Program

The summer off-campus work-study program provides full-time summer jobs at \$4.25 per hour for students who have great financial need and who must earn a part of their educational expenses. The application procedure is the same as that for on-campus College Work-Study. Application must be made no later than March 15. Job placement is arranged by PHEAA, sponsor of the program. Students work in non-profit organizations in their home areas and have some preference in job location and job type.

Vocational Rehabilitation

The purpose of vocational rehabilitation is to provide training and services for physically or mentally disabled or handicapped persons. If students are enrolled in an educational program, they can receive aid to pay for educational costs. Students may also receive assistance in purchasing the tools and equipment necessary for a job.

Students may be eligible for aid under the Vocational Rehabilitation program if they have a physical or mental disability or handicap which interferes with their vocational goals. The Vocational Rehabilitation Office is located in Room 17 on the second floor of Ben Franklin Hall.

Veterans Benefits

Students who are veterans of the armed services may qualify for educational assistance under the GI Bill of Rights or Veterans Educational Assistance Program. For more information, contact the local Veterans Administration Office.

Regional Awards

Students are encouraged to investigate possible financial aid opportunities in their home communities. High school guidance personnel may be able to extend considerable assistance as to the availability of aid through sources such as local PTA chapters, teachers' associations, service clubs, fraternal clubs, local industry, local foundations, and religious organizations.

Paul Douglas Teacher Scholarship—Administered by PHEAA in Pennsylvania, the Paul Douglas Teacher Scholarship Program is designed to encourage academically talented students to enter the pre-school, elementary or secondary teaching fields. Annual scholarships of up to \$5,000 are awarded to eligible secondary school graduates on the basis of academic achievement and the recommendation of an instructor or high school official.

Applicants must sign an agreement to teach for a period of not less than two years in exchange for each year they receive the scholarship or repay the award as a loan, including interest. The application deadline is usually May 1 for the following academic year. Applications and information may be obtained from secondary school guidance counselors or the Pennsylvania Higher Education Assistance Agency, Coordinator for Teacher Education Programs, P.O. Box 8114, Harrisburg, PA 17105-8114.

Scholars in Education Award

The Scholars in Education Award (SEA) is a special program established by PHEAA to encourage students with high scholastic qualifica-

tions in mathematics and the sciences to enter the teaching profession. SEA grants are \$1,500 per year at Bloomsburg University.

Students who receive an SEA must agree to teach a year of mathematics or science in a Pennsylvania secondary school for each year the SEA is received. If this teaching commitment is not fulfilled, the student is required to repay the award plus interest at the rate established by PHEAA.

Fees

Fees are subject to change without notice.

Community Activities Fee

The Community Activities fee of \$55 per semester is charged to each full-time undergraduate student. Part-time students taking coursework on campus are required to pay the Community Activities fee at the rate of \$4.60 per semester hour. Community Activities fees finance student activities in athletics, recreation, music, lectures, student publications, general entertainment, student organizations, and other student-supported programs.

Basic Fees

Full-Time Undergraduate In-State Residents

The basic semester fee for full-time undergraduate students who are residents of Pennsylvania is \$1,139. An extra fee of \$95 per semester hour is charged for course loads in excess of 18 semester hours in any one semester.

Part-Time Undergraduate In-State Residents

Undergraduate students who are Pennsylvania residents and who take fewer than 12 semester hours in one semester pay fees of \$95 per semester hour.

Full-Time Undergraduate Out-of-State Students

Out-of-state undergraduate students pay fees per semester of \$2,156 for 12 to 18 semester hours. The definition of an out-of-state student may be obtained from the Admissions Office.

Part-Time Undergraduate Out-of-State Students

Out-of-state undergraduate students who take fewer than 12 semester hours in a semester pay fees of \$180 per semester hour.

Graduate Students (In-State or Out-of-State Residents)

In-state graduate students pay \$1,139 for 9 to 15 semester hours and \$127 per semester hour for less than 9 or in excess of 15 semester hours. Out-of-state graduate students pay \$1,442 for 9 to 15 semester hours and \$160 per semester hour for less than 9 or in excess of 15 semester hours.

Summer Session Fees

Undergraduate students pay \$95 per semester hour for summer session courses. Graduate students pay \$127 per semester hour. Summer session

fees apply to both Pennsylvania residents and out-of-state students. The Community Activities Fee is \$2 per week for all students taking undergraduate coursework on campus.

Changes in Fees or Costs

All fees or costs are subject to change without notice. If billing is prior to change, student accounts will be charged or refunded after the fact. Charges for dining hall meals are adjusted annually after the end of the academic year. The adjustment under the food service contract, currently in force, is based on the wholesale price index.

Housing Fees

Accommodations during the 1991-1992 academic year in a campus residence hall cost \$865 per semester for single occupancy, \$745 per semester for double occupancy, and \$770 for upper campus apartments. The 1991 summer session housing fee is \$50 per week for upper campus apartments and \$46 per week for lower campus.

Meal Plans

All students who live in the residence halls are required to take their meals in the campus dining hall under one of two food service plans during the academic year; \$598 per semester (\$50 in flex dollars) for 19 meals per week or \$578 per semester (\$100 in flex dollars) for 14 meals per week. The summer session food service charge is \$32 per week for 19 meals and \$30 per week for 15 meals. Food service fees are payable with the housing fee as a combined charge. Housing and food service fees are the same for Pennsylvania residents and out-of-state students.

Students who live off-campus may take their meals in the dining hall if space is available. They may opt for one of four meal plans: 19 meals per week for \$598 per semester (\$50 in flex dollars), 14 meals per week for \$578 per semester (\$100 in flex dollars); 10 meals per week for \$494 per semester (\$50 in flex dollars); and 7 meals per week for \$452 per semester (\$50 in flex dollars). The 14, 10, and 7 meal plans apply to any meals served in the campus dining facilities Monday through Sunday. No changes to meal plans are processed after the second week of the semester. (See the catalog subsection on *Basic Fees*.)

Casual Meal Rate

Breakfast	\$2.50	Dinner	\$4.80
Lunch	\$3.70	Steak Dinner	\$6.25

Arrangements for room guests must be approved by the resident director of the hall where the guest will be housed.

Keys

A \$30 fee is charged for replacing a room key and \$5 for a mailbox key.

Payment of Fees

A nonrefundable advance registration fee of \$100 is payable when an individual is approved for admission as an undergraduate student or when a former student is approved for readmission. This fee is credited to the first basic fee payment.

The 50 percent Community Activities Fee for one semester (\$55) is payable when a student is approved for admission or when a former student is approved for readmission after being out of school for one or more semesters.

A \$100 advance housing deposit, of which \$50 is refundable, is required to reserve a room accommodation and negotiate a housing contract for the academic year. This deposit must be paid prior to room assignment and is credited to the housing charge for the current semester.

Bank drafts, post office money orders, or checks must be made out for the exact amount of the fee.

Fees, other than the activities fee, are payable to the university. Activities fees are payable to Community Activities.

Fees are due at times determined by the Business Office or the Community Activities Office.

The university reserves the right to withhold information concerning the record of a student who is in arrears in fees or other charges including student loans.

The university does not offer a time payment plan. Billing statements of student accounts are mailed prior to registration each semester. Failure to comply with the directive concerning payment excludes the student from registration.

Inquiries concerning fees may be addressed to: Director of Accounting, Business Office, 22 Waller Administration Building, Bloomsburg University, Bloomsburg, PA 17815.

Orientation Fees

There is a one-time *administrative* orientation fee of \$20 paid to the Business Office at the initial billing.

A *participatory* fee for the orientation program held on-campus is included with the registration for the program and paid directly to the Orientation Office.

Participatory fee for orientation:

\$45 for fall freshmen

\$15 for fall transfer students

\$16 for summer freshmen

\$17 for Developmental Instruction students

Miscellaneous Fees

Diploma Fee—A diploma fee of \$10 is charged at graduation for a bachelor's degree or a master's degree.

Transcript Fee—A \$2 fee is charged for each official transcript of a student's record and \$1 for an unofficial transcript.

Late Registration Fee—A late fee of \$10 is charged to a student who completes registration after the official registration date.

Application Fee—A \$15 application fee must be paid by each applicant, undergraduate and graduate, at the time of request for registration.

Student Community Building Fee—Students are charged a Student Community Building Fee of \$60 per semester for regular sessions, \$1 for a one- to three-week summer session, and \$2 for a four- to six-week summer session.

Health Service Fee

Health Service Fee—All students carrying 9 or more semester hours are assessed a \$30 Health Service fee per semester. Students scheduling 8 semester hours or less will not be assessed a Health Service Fee.

Faculty and staff who schedule academic courses are not assessed a Health Service Fee. Student teachers and/or students on internships who are not residing in the Bloomsburg area are not liable for this fee; they may request, in writing, an exemption from the Registrar's Office. Students registered in extension courses also are not assessed a health fee. Health services are available only to students who pay a health fee.

All students enrolled in a summer session are assessed \$1 per week for the length of the session(s) for health services.

The monies collected from this fee pay for the health service that has been designated by the Pennsylvania Legislature as an auxiliary function of the institution. These funds are expended for the professional salaries related to health services, plus the cost of the Hospital Emergency Room Fee Waiver Contract and other service contracts, i.e., ambulance service, family planning, medical supplies, utilities, and the self-care unit.

Refund Policies

Application Fee—The application fee (\$15) is not refundable.

Advance Registration Fee—The advance registration fee (\$100) is not refundable.

Basic Fee—Fees for tuition are eligible for refunds when a student withdraws from school. All refund requests must be submitted in writing to the Business Office, 22 Waller Administration Building. A student is eligible for consideration for a refund for any reason approved by the president or the president's designated official or illness certified by a physician. The refund schedule also applies to part-time students. Except for forfeit of advanced deposits, refunds for basic fees are based on the following schedule applicable after the first full class day:

1st through 2nd week	3rd week	4th week	5th week	After 5th week
80%	70%	60%	50%	No Refund

A refund schedule for summer sessions is published in the *Summer Session Bulletin*.

Community Activities Fee—The Community Activities Fee (\$55), paid as part of the advance registration deposit, is not refundable.

Other Refund Policies

No refunds are made when students are suspended, dismissed, or voluntarily withdraw from the university. The \$100 housing deposit is not refunded when housing contracts are broken due to voluntary withdrawals from school. Room fees are refunded on the same basis as the basic fees are.

In cases of personal illness that are certified by an attending physician or for other reasons which may be approved by the university's Council of Trustees, refunds of the housing fee and contingent fees are

prorated; the unused portion is subject to refund.

In case of withdrawal, refunds that are due are computed from the date the notice of official withdrawal is received at the Business Office.

**Books and
Supplies**

Books and supplies are estimated at \$170 per semester. Students may secure books and supplies at the University Store. The store operates on a cash basis.

Academic Policies, Practices, and Services

Academic Policies and Practices

Academic policies and practices are subject to change; the policies of this chapter are those authorized as of March 1, 1991. If there are subsequent changes that are effective for 1991-1993, insofar as possible, these will be announced in the *Pilot*; the changes made after publication of the *Pilot* are announced in *The Voice*.

Student Responsibility

It is the responsibility of the student to know and observe the academic policies and regulations of the university, to confine registration to courses for which the prerequisites have been satisfied, and to meet the requirements for graduation.

In case of changes by the university in graduation curriculum requirements, degree students who attend without interruption may choose to satisfy either the requirements as they existed at the time of their entrance or the new requirements; if they elect to satisfy the new requirements, they are responsible for them in total. All students who are readmitted to the university and part-time students must apply to the provost and vice president for academic affairs for permission to be graduated under the requirements existing at the time of their original admission to Bloomsburg.

Definition of Full-Time Student

An individual who is enrolled for a minimum of 12 semester hours is classified as a full-time student throughout the semester. One who is enrolled for fewer than 12 semester hours is a part-time student. Where the word "student" appears without clarification either by word or context in this catalog, full-time degree student is implied. Students should be aware that failure to maintain a certain number of semester hours per year may affect eligibility for financial aid, athletics, et al.

Scheduling Classes and Registration

Students enroll by scheduling classes, paying fees, and registering on the first day of each semester or summer session. The scheduling of classes is usually completed during the prior semester. Classes in progress for the current semester always constitute an obligation to the student. All scheduling procedures for the next semester shall not conflict with this obligation. The dates for scheduling and advisement are announced by the registrar. To schedule, students obtain a class schedule booklet, meet with their advisers, and enter their schedules directly at designated computer terminals.

Seniors will schedule first followed by juniors, sophomores, and freshmen. Fall freshmen will have their schedules prepared in advance with an opportunity for counseling and schedule changes during the orientation period.

All students must complete English Composition I and II (or the equivalent) by the end of their sophomore year.

Students shall not be required to take part in cocurricular activities

until after 3:30 p.m. Scheduled activities have precedence over unscheduled meets, practices, etc.

Students off-campus at the time of scheduling due to student teaching, internships, etc., will prepare their proposed schedule, which will be processed at the appointed time with those of their peers. These students will need the supervisor's signature and must mail their class scheduling form to the registrar.

Students are billed according to the number of semester hours scheduled. (See the catalog section on *Admission, Financial Aid, Fees.*)

Students must register in person on the first day of each semester or summer session according to the instructions for registration issued by the registrar. Special provisions for registration are available for non-degree students and part-time degree students. Students who do not register will have their class schedules dropped at the end of the first day of registration.

Students with unpaid fees, overdue library materials, and other obligations due the university will be denied scheduling and registration privileges.

Students with disabilities should contact the Office of the Registrar to make special arrangements for scheduling of classes and registration.

**Schedule
Changes**

A course or courses may be dropped, except by first semester freshmen, during the schedule change period (the first five days of classes), but none may be added except for extenuating circumstances.

All courses agreed to with the adviser prior to registration shall constitute a full class schedule. Should the student drop a course during the schedule change period (the first five days of the semester), the student will not be permitted to add a course except under extenuating circumstances.

Late Registration

A student may register late until the close of business on the sixth day of the semester or the first Wednesday following a summer session registration. There is a special fee for late registration unless the student presents a medical excuse at the time of registration.

Semester Hour

A semester hour is ordinarily defined as the credit for one weekly period of 50 minutes in lecture, discussion, or recitation for one semester. In some cases, as in laboratory, studio, or internship, there may not be a one-to-one correspondence between experimental time and credit.

**Residence
Requirements**

At least 32 of the last 64 semester hours credited toward a bachelor's degree must be taken in residence at the university. Former Bloomsburg students who are certified for teaching by completing two or three years of college work and who are candidates for the Bachelor of Science in Education must complete at least one half of the remaining work for the degree program in residence. Residence credit is given for courses by Bloomsburg University for college credit.

Class Standing

A student has academic standing as a Freshman until he or she has 32

semester hours, as a Sophomore from 32 to 63 semester hours, as a junior from 64 to 95 semester hours, and as a senior after 96 or more semester hours of credit. Transfer credit, if any, is included in these figures.

For purposes of social and housing privileges and regulations, the definitions of class standing are as follows: freshman, to and including 29 semester hours; sophomore, 30 to 59 semester hours; junior, 60 to 89 semester hours; senior, 90 or more semester hours or 6 semesters as a full-time student.

Normal Load and Overload

The normal course load of a student in any semester is 16 semester hours. A student in good standing is limited to 18 semester hours, unless he or she receives permission for an overload by his or her academic adviser. A quality point average (QPA) of 3.0 or higher is required of the student before permission can be granted for an overload. If the QPA is less than 3.0, then approval of the department chairperson is required. (See the section on *Admission, Financial Aid, Fees.*)

A student who is making minimum progress toward academic good standing or who is on academic probation may schedule no more than 16 semester hours. (See the subsection on *Academic Good Standing.*) A student who has been reinstated upon appeal of academic dismissal is limited to scheduling 13 semester hours. (See the subsection on *Satisfactory Progress.*)

Pass-Fail Policy

After attaining Sophomore standing, a degree student may elect credit courses on a pass-fail basis in accordance with the following rules:

- A maximum of two courses (totaling not more than 8 semester hours) may be included as part of the minimum graduation requirement of 128 semester hours.
- No more than one pass-fail course may be taken in any one semester.
- A student may request to take a course on a pass-fail basis up until the close of the business day on the second Friday of the semester or on the first Wednesday of each summer session.
- Courses taken on a pass-fail basis must be free electives; no required courses may be taken pass-fail. Required courses are those courses used to satisfy the requisites for a major (including required cognate courses) or a minor or to comply with General Education requirements.
- The instructor is not informed that the course is being taken on a pass-fail basis. Grades of A, B, C, D, or E are translated into grades of P or F, with the grade of P recorded for a grade of D or higher and the grade of F recorded for E. Grades of P and F do not enter the computation of a QPA.
- If subsequent to completion of a course on a pass-fail basis the student changes his/her major to one in which the original grade is required, the student may request that the chairperson of the academic department be notified of the actual letter grade earned.
- A student who has received a grade of E in a course may not take it later on a pass-fail basis.

- A student may revoke a decision to take a course on a pass-fail basis. The revocation must be completed by the close of the business day one week after the middle of the semester. This allows the pass-fail option to be used again.

Auditing of Courses

A full-time student who is enrolled for less than 17 hours of coursework may, with consent of the appropriate dean and subject to fees as stated in the subsection on *Fees*, register for one course as an auditor. If the registrant attends at least three-fourths of the regular class meetings a V will be reported by the instructor, and the course will be entered on the academic record without credit. No assignments are made to an auditor, and no papers or examinations are accepted by the instructor for grading or recording either during the period of enrollment or subsequent thereto. An auditor may not participate in laboratory or studio work if such work is part of the course audited.

A part-time student may register as an auditor subject to the provision that when computing the fee paid by the student, the course audited will be counted the same as if it were taken for credit. Individuals who are not enrolled as students may apply for audit privileges through the dean of the School of Extended Programs. Acceptance depends upon such factors as space in class and educational background.

Credit by Examination

A student may petition for the privilege of establishing credit in a course or courses listed in the *Undergraduate Catalog* through a comprehensive examination instead of through registration and class attendance. The following regulations govern this provision:

- The student must present evidence of adequate experience with the course content, either through experience other than college attendance or through independent study of the course content.
- A student may not petition for an examination in a course she/he has audited or in a course for which a failing grade has been recorded.
- The student must present evidence of equivalent experience if the course involves laboratory or studio work.
- The student's petition must be approved sequentially by the chairperson of the department and the dean of the college in which the course is offered.

An examination committee must be appointed by the department chairperson and approved by the dean of the college. Unless the course is an advanced course which is taught by only member of the faculty, the examination committee must include at least two faculty members.

The examination must cover the course syllabus in a comprehensive manner. Suitable standardized examinations may be used. The examination must be written or, if oral, subject to transcription. Where a skill, such as typing or shorthand, is a course requirement, the written and oral aspects must be supplemented by demonstration of skill. All papers must be filed in the department office for three years from the date of graduation.

If the student passes the examination, a grade of P is assigned for the

course. If the student fails, no record is made. The course does not count in the student's normal quota of pass-fail courses.

A recording fee of \$30 is charged for courses challenged by institutional examination taken for credit regardless of the number of credits awarded for that course. Upon receipt of approval, this fee is payable at the Business Office. Evidence of payment must be presented to the department before the examination can be administered.

Suitable adaptations of the above procedures may be used to validate transfer courses taken in nonaccredited colleges. No fee is charged for an examination to validate such credit. Examinations may be based upon the syllabi of the courses taken at the previous institution or, in case the student wishes to establish equivalency with courses at the university, upon the syllabi of courses offered in this institution.

**Graduate
Courses in the
Senior Year**

Seniors needing fewer than 18 semester hours of coursework to satisfy requirements for a baccalaureate degree may, with approval of a department chairperson, apply to the assistant vice president for graduate studies and research, School of Graduate Studies for permission to supplement undergraduate courses with graduate courses. Credit for graduate courses is awarded upon verification of completion of the student's undergraduate degree.

**Class Attendance
Policy**

Regular classroom attendance is expected of all students. A student will be afforded reasonable assistance by a faculty member when coursework is missed for such reasons as:

- Personal illness,
- Death or critical illness in the immediate family,
- Participation in a university-sponsored cocurricular activity.

In the latter instance, mutually satisfactory arrangements for assistance must be made by the student when the activity is announced.

The instructor is not required to provide make-up examinations or to review class work missed as a result of unauthorized absences.

A faculty member with departmental approval may adopt a reasonable, alternative policy if class members are provided that policy in writing during the first week of classes.

**Course
Requirements
and Progress
Reporting**

In the first week of classes each semester, teaching faculty will distribute to their students a written course profile containing the following minimal information:

- Requirements for achieving each letter grade,
- Any relationship of class attendance to the course,
- Any other course requirements,
- Weighted averages of requirements for computation of a grade,
- Procedures for making up tests or other work missed due to an excused absence,
- Grade Posting Policy — In the event grades are to be posted, each student has the opportunity to request in writing that his or her grade not be posted. If a student does not make the request, the instructor may assume that permission for posting is granted.

At any time during the semester, teaching faculty shall be prepared to inform students of their academic progress should the student request this.

**Recording
Grades**

At the end of a semester or summer session, the final grade for each course is recorded on the student's permanent record; a copy of the semester's grades is sent to the student's home address or another address designated by the student. Midsemester grades of D and E are reported to degree students with 32 and fewer semester hours earned. These grades are not permanently recorded.

**Definition of
Grades**

Grades given at Bloomsburg University are defined as follows:

A *Excellent*

B *Above Average*

C *Average*

D *Minimum Passing Grade*

E *Failure*

I *Incomplete* is a temporary grade given only when an instructor believes a student has been unable to complete course requirements due to circumstances beyond his/her control. Failure of a student to take the final examination or complete other course requirements without prior arrangement with the instructor for a legitimate excuse is not justification for a grade of I.

When an instructor submits a grade of I to the registrar, it must be accompanied by a formal, written plan for the student to complete the course requirements and the appropriate letter grade that would be assigned if the plan were not completed by the student in the time specified. The plan for the student to complete the course requirements shall be drawn up by the instructor with the acceptance of the student. Unless specifically stated in the written plan to the contrary, it is assumed that work will be completed prior to the end of the next regular semester. When the plan has been completed by the student, the instructor will recalculate the grade to be assigned for the course and submit this new grade to the registrar according to established procedures.

A request for an extension of time to complete course requirements must be initiated by the student prior to the deadline of the plan on file in the Office of the Registrar. The student must present suitable documentation to the instructor indicating that circumstances above and beyond her/his control persist or new circumstances of that nature have developed. It will be granted only upon approval of the instructor and the dean of the appropriate college.

P *Passed* This grade is recorded when a student takes a course on a pass-fail basis and does work which would lead to a grade of D or higher. The grade of P also is recorded when a course is passed by proficiency examination and when a student receives a pass-

ing grade in a noncredit course or cocurricular activity such as varsity sports, musical ensembles, theater, and forensics.

F Failed This grade is recorded when a student takes a course on a pass-fail basis and does work which would lead to a grade of E. The grade of F also is recorded when a student receives a failing grade in a noncredit course for a cocurricular activity.

R Research This grade is assigned by the instructor only when a student has been unable to complete a research component of a course because the length of time for the research exceeds the end of semester and when a formal plan for completion of the research is filed with the instructor and the chairperson. Provisions for removal of the grade are the same as those for the grade of I. The instructor must submit the grade of R to the registrar along with the formal plan for completion of the research and the grade to be assigned to the student if the research is not completed satisfactorily in the time period stipulated. The plan for the student to complete the research shall be drawn up by the instructor with the acceptance of the student. Unless specifically stated in the written plan to the contrary, it is assumed that the work will be completed prior to the end of the next regular semester. When the student has completed the plan, the instructor shall recalculate the grade to be assigned for the course and submit this new grade to the registrar according to established procedures.

V Audit (See the section on **Auditing of Courses.**)

X No Grade Reported When a grade of X is recorded, the provisions for determining academic honors, good standing, minimal progress, and satisfactory progress are not applied until the grade of X is removed.

W Withdrawn (See the catalog subsections on *Course Withdrawal* and *Withdrawal from the University.*)

Quality Points

Quality point values are assigned as follows:

Grade	Quality Value Points
A	4
B	3
C	2
D	1
E	0

Quality Point
Average (QPA)

The Quality Point Average (QPA) is computed from the academic record of courses taken at Bloomsburg University in which grades of A, B, C, D, and E were earned. The computation is executed by multiplying the number of semester hours for each course by the number of quality

points for the grade in the course and adding the products, then dividing the sum obtained in the first step by the total number of semester hours represented by the courses.

A "semester QPA" is computed by including only the courses of a single semester. The "cumulative QPA" is computed by including all courses taken to date at Bloomsburg University. If a course is successfully repeated at another accredited institution of higher education, the credits for a grade of D or E at Bloomsburg are deleted from the computation.

Change of Grade

After a grade of A, B, C, D, or E has been reported to the Registrar's Office, it may be changed only through the grievance process or to correct a computational or clerical error. A recommendation for change of grade due to a computational or clerical error must be made in writing by the instructor and approved by the department chairperson and the dean of the appropriate college. When a grade of I and R is changed, only the approval of the department chairperson is required.

Course Repeat Policy

A maximum of four courses (not more than 14 semester hours) in which grades of D or E have been recorded may be repeated. The initial grade remains on the transcript and is part of the student's permanent record. Quality points are awarded for the grade of the repeated course only. The grade of the repeated course is part of the permanent record and is used to calculate the student's quality point average. Multiple repeats of the same course are considered as one repeat. A course taken at the university in which a grade of D or E has been earned and repeated at another accredited institution of higher education is included in the permitted maximum number of repeats.

Withdrawal from a Course

Any student except a first semester freshman may drop a course during the schedule change period (the first five days of the semester). When a course is dropped, it is removed from the student's schedule entirely. However, a student may not add a course except under circumstances noted in the sections pertaining to registration and scheduling. After the schedule change period and continuing until one week past the middle of the semester, if a student withdraws from a course a grade of W will be recorded. As a means of notification to the instructor of the intent to withdraw, a student is required to obtain the instructor's signature on a withdrawal form.

No withdrawals will be permitted after the close of the business day one week after the middle day of the semester.

Prior to the last week of classes, in exceptional circumstances and for compelling and justified reasons, the dean of the college in which the course is being taught may waive these restrictions.

A limit of four withdrawals during the degree program shall apply. Withdrawal from the university is an exception.

Withdrawal from the University

A student may withdraw from the university by completing a withdrawal form at the Office of the Registrar, Room 6, Ben Franklin Hall.

Students withdrawing in absentia must submit a written request to the registrar.

When students withdraw during a semester, the grade of W is recorded for each of the courses on the student's schedule if the withdrawal occurs prior to the beginning of the final examination period. Students may not withdraw during final examination period.

The effective date of an official withdrawal is the date on which the student signs an official withdrawal form in the Registrar's Office or the date on which the written request is received by the registrar for a student withdrawing in absentia.

Students failing to register for the next semester are classified as withdrawn and must apply for readmission. Nondegree students may continue to register without readmission provided their next registration is within four semesters of their last enrollment.

An individual who discontinues attendance without clearing all obligations to the university waives the right to a transcript and future readmission until all obligations are cleared.

Policies which cover reimbursements are stated in the subsection on *Miscellaneous Fees* under *Admissions, Financial Aid, Fees*.

In addition to withdrawing from the university, students may be absent for extended periods of time. The categories include:

Temporary Withdrawal/Leave of Absence is granted by the Admissions Office after a student completes the withdrawal procedures and when files a temporary withdrawal/leave of absence form with the Admissions Office. (Refer to the subsection on Temporary Withdrawal/Leave of Absence under *Admission, Financial Aid, Fees*.)

Clinical Experience absence is authorized by the registrar when a student is participating in the clinical year(s) of the medical technology and radiological technology programs. Students in this category are not charged fees by the university during the time of their clinical experience at a cooperating hospital.

Study Abroad absence is authorized by the registrar when a student is participating in a university sanctioned exchange program with a cooperating university abroad. The student may be charged fees in accordance with the agreement with the cooperating university.

Completing Degree Elsewhere absence is authorized by the registrar when a student receives permission from his or her adviser and department chairperson to complete course requirements at an approved institution other than Bloomsburg University.

Mandatory Leave is recorded by the registrar when a student is required to leave the university due to medical and/or psychological reasons or is suspended.

Evaluation of Transfer Credits

College-level courses completed at a two- or four-year college or university accredited by one of the regional accrediting associations in which grades of C or higher were earned are usually transferred for a degree student. A course in which a grade of D was earned transfers only if the overall QPA at the school where the coursework was completed is 2.0 or better on a 4.0 system. In either case, courses transfer; grades, quality

points, and QPAs do not transfer. Transfer credits will be deleted if a student subsequently registers for courses which substantially duplicate the content of courses accepted in transfer.

A student applying to transfer courses must fulfill the provisions of the subsections on *Residence Requirements* and *Graduation Requirements*.

When substitution of transfer credit for a required course is in question because the course was taken at an unaccredited institution or because the description or standards of the course are unclear, a student is entitled to an opportunity to validate the course by examination. When they are available, standardized examinations are used. (See the subsection on *Credit by Examination*.)

Correspondence courses, the total of which does not exceed 15 semester hours, are subject to acceptance. The courses must be from a college or university accredited by one of the regional accrediting associations and offered within a baccalaureate degree curriculum.

Courses taken at another institution on a pass-fail basis are acceptable if they conform to the conditions for such grades at Bloomsburg.

Credits from other institutions accredited by one of the regional accrediting associations earned by a Bloomsburg degree student will transfer provided approvals are obtained first from the student's adviser and department chairperson. An approval form can be obtained from the registrar. Upon completion of a course, it is the student's responsibility to provide the registrar with an official transcript. Course evaluations by department chairpersons must be secured before the registrar can record courses and credits on the student's academic record.

Evaluation of credit earned at other institutions by transfer students and by readmitted students who earned credit subsequent to their prior enrollment at Bloomsburg is made in the Admissions Office with guidelines provided by a department chairperson, cooperatively established by a college dean. A transfer student is issued an evaluation sheet that stipulates the requirements for graduation which remain to be met. This is subject to revision in the light of subsequent changes in the evaluation of the transcript.

Academic Good Standing

A student whose record at any final grading period shows a cumulative QPA of 2.00 or better is considered in academic good standing. (There are three final grading periods, fall semester, spring semester, and the total summer session.)

Satisfactory Progress

Satisfactory progress is evaluated on the basis of two criteria:

- A student's ability to earn a minimum of semester hours;
- A student's ability to maintain a minimum QPA at the conclusion of each grading period.

Full-time, continuously enrolled undergraduate degree students, in order to maintain satisfactory progress toward the completion of a degree, must earn a minimum of 24 semester hours in any given 12-month period (including semester hours earned in developmental studies courses).

Part-time undergraduate degree students, in order to maintain satis-

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isfactory progress within any 12-month period, must earn half of all semester hours attempted for up to 8 semester hours; two-thirds of all credit hours attempted for 9 or more semester hours.

Note: Hours earned for a repeated undergraduate course are not counted twice.

To maintain satisfactory progress, a student must meet the following minimal requirements:

Total Semester Hours Earned <i>(Includes grades of P and transfer credits)</i>	Cumulative QPA Required for Minimal Progress
1-16 semester hours	1.25-1.99
17-32 semester hours	1.65-1.99
33-48 semester hours	1.85-1.99
49-64 semester hours	1.95-1.99
65 or more semester hours	2.00

A student, while making minimal progress toward academic good standing, may schedule no more than 16 semester hours.

Dean's List

A full-time degree student whose semester QPA is 3.5 or higher in 12 or more semester hours of coursework will be named to the dean's list for that semester. Grades of P or F do not enter the computation of a student's QPA.

Academic Probation

An undergraduate student in one of the following categories is permitted to attend the university on academic probation for one additional final grading period (*semester/summer*) but limited to 16 semester hours:

- An entering freshman whose QPA at the end of his/her first final grade period is at least 1.00 but less than 1.25;
- A transfer student whose QPA at her/his first final grading period is less than, but within 0.25 of the cumulative QPA required for minimal progress;
- A student who has been meeting the requirement for at least two consecutive grading periods immediately prior to a grading period in which his/her cumulative QPA drops below but within 0.1 of the cumulative QPA required for minimal progress;
- A full-time freshman or transfer student who was making minimal progress toward good standing at the end of the second grading period is below but within 0.1 of that required for minimal progress toward good standing;
- A readmitted student who was formerly dismissed for academic deficiency who at the close of the first grading period has not regained minimal academic progress or good standing;
- A full-time student who failed to earn 24 semester hours within one 12-month period;
- A part-time student who failed to earn the minimum number of semester hours as prescribed above within the given semester.

Academic Dismissal

A student who at any final grading period is not in good standing, making minimal progress toward good standing, or qualified to attend

for a semester on academic probation is excluded from registration, and his/her record is marked "academic dismissal."

A student under academic dismissal is ineligible to attend any courses offered for a period of at least one calendar year. Readmission regulations are stated in the subsection on *Readmission* under *Admissions, Financial Aid, Fees*.

Students failing to meet the minimal requirements of earned credit hours and/or QPA will be notified by the Office of the Registrar.

Appeals

A student under academic dismissal may petition the Academic Review Board for reinstatement. If reinstatement is granted, the conditions of reinstatement are indicated including an enrollment limit of 13 semester hours for a specified period of time. The student's record also is marked committee reinstated. If the student does not attain good standing or is not making minimal progress toward academic good standing by the end of the period granted by the conditions of reinstatement, he or she is excluded from further registration, and her/his record is again marked "academic dismissal."

If the student elects to attend the summer sessions immediately following reinstatement for a spring semester dismissal, then the entire summer session is considered the next grading period for which the student must attain minimal progress toward good academic standing or good academic standing.

Petitions to the Academic Review Board *must be in writing* and must be received by the chairperson of the Academic Review Board within 48 hours of receipt of official notification of dismissal.

The Academic Review Board is comprised of the deans of Arts and Sciences, Business, and Professional Studies; director of admissions and records, dean of the School of Extended Programs; coordinator of Academic Advisement; registrar; director of the Center for Counseling and Human Development; and a representative of the vice president for student life. At the initiative of either the applicant or the Academic Review Board, the student's adviser will be invited to participate as a voting member in the consideration of the case.

In its evaluation of a petition for reinstatement, the board is charged to consider the degree to which external factors beyond the student's control temporarily prevented optimum academic achievement; the likelihood that these or similar factors would not recur if reinstatement were granted; the likelihood that the student, if reinstated, could complete his or her curriculum successfully within a reasonable extension of the normal four-year period; and an evaluation of the plan for attaining good standing proposed by the student. A decision of the Academic Review Board is final and not subject to review.

Graduation

Graduation requires the successful completion of at least 128 semester hours to include completion of the curriculum of an approved major program, completion of general education requirements, and an average of 2.0 in all courses required by the major program. The student must make a formal application for graduation at the Office of the Registrar

in Ben Franklin Hall by the deadlines announced periodically in the class schedule.

The last 64 semester hours of credit toward graduation must be in courses taken in a four-year, degree-granting institution accredited by one of the regional accrediting associations. At least 32 of the last 64 semester hours credited toward a baccalaureate degree must be Bloomsburg University courses. Exceptions to this policy will be made only by a college dean with the recommendation of the appropriate department chairperson. All financial obligations to the university must have been cleared.

Honors

The Latin designations *summa cum laude*, *magna cum laude*, and *cum laude* are used to identify honor graduates.

- Graduating seniors having cumulative QPAs between 3.95 and 4.00 are designated *summa cum laude*.
- All those graduating seniors having cumulative QPAs between 3.75 and 3.94 are designated as *magna cum laude*.
- All those graduating seniors having cumulative QPAs between 3.50 and 3.74 are designated as *cum laude*.

Honors for graduation will be as of the last previous semester, while honors for transcripts and diplomas will be as of the end of the final semester.

A student must take 48 semester hours in residence at Bloomsburg University in order to be considered for academic honors at commencement.

At the spring commencement ceremony, the graduate in each college who has earned the highest academic average of current spring graduates within the college shall receive a diploma on behalf of all graduates from that college. This honored graduate must have earned (prior to the final semester) at least 64 semester hours at the university. In the case of a tie, all top graduates will participate.

Multiple Degrees

A student can be awarded only one baccalaureate degree at a time. The degree to be awarded must be selected prior to the last semester. A student completing an additional major in another degree program will have the fact noted on her or his transcript.

Associate Degree

Except as provided otherwise in this section, all of the preceding academic policies and practices apply to the associate degree. With respect to advanced placement, pass-fail, repeating courses, course withdrawal, and residence requirement, the policy is limited to 50 percent of the number of courses or credits indicated.

Academic Examination Policy

- Faculty shall give examinations during the regularly scheduled classes of the semester. The faculty are responsible for determining the length, frequency, form, and content of all examinations within the guidelines listed below. Final examinations shall be given where applicable only during the designated final examination week after the end of regularly scheduled classes and only at

the designated time and place according to the final examination schedule.

- Faculty will distribute in writing the requirements for each course within the first week of each academic term. In these requirements, final examinations shall be worth no less than 20 percent nor more than 40 percent of the course grade. No single exam, paper, project, or assignment shall have greater emphasis than the final examination. As a result of this condition, every course must use at least three evaluations for grading purposes.
- Faculty will give final examinations, which are comprehensive in design, emphasizing subject matter presented over the entire term.
- Faculty will return and/or permit students to review all unit tests, quizzes, and other types of evaluations by the last regularly scheduled class in the term. In order to prevent an excessive build-up in the number of unit tests for each student during the last week of classes, faculty are advised to refrain from testing during that week.
- A final examination schedule shall be prepared by the Registrar's Office with consultation of the faculty, if necessary, and approved by the provost and vice president for Academic Affairs. Regularly scheduled final examination periods will be 120 minutes in length. Part of the final examination week will include at least a one-day interval between the last full day of classes and the first day of scheduled examinations. This time will be designated as the reading period.

Scheduling Restrictions for Examinations

The following restrictions are imposed on the scheduling of activities during final examination week:

- Faculty are not required to be available to students for conferences during final examination week.
- No examinations will be scheduled during the reading period unless approved by the provost and vice president for academic affairs.
- No extracurricular activities or faculty-administrative activities shall be scheduled except with the consent of the individuals involved.
- The Andrus Library will remain open, and other designated study areas will be made available during the final examination period with expanded hours when possible.
- No student shall be required to take more than two final examinations in one day. (See the subsection on *Procedures* for rescheduling of final examinations.)

Procedures for Scheduling Examinations

Any exceptions to any of the scheduling restrictions cited above must be made on the basis of the following procedures:

- In case of noncompliance with the provisions of this policy, the student has the recourse of proper grievance procedures as established by the university.
- During summer sessions, the last class period of each course shall be designated as the final examination period with the time period

for the examination not to exceed 80 minutes unless the arrangements have been made in advance so that they can be announced at the first meeting of the class. Except in unusual circumstances, classes in six-week sessions shall have the final examination on the last day of the course. Final examinations for courses scheduled in three-week sessions shall be held during the last of the two class periods scheduled for the last day. Classes in the nine-week sessions shall hold final examinations on the last scheduled class day with the period extended to 80 minutes for that class.

- Faculty who wish to schedule quizzes, tests, or examinations at times other than during their regularly scheduled class periods during the term may do so only if a make-up opportunity is made available to students. This opportunity must be scheduled at a time mutually acceptable to both student and faculty and may not conflict with the student's other scheduled classes. A faculty member shall not give an examination at a time other than during a regularly scheduled class period unless approval is first obtained from the majority of the faculty members of his/her academic department. Except for abnormal circumstances, this approval should be granted by the end of the first week of classes. Notification of this alternative arrangement shall be given to the appropriate college dean.
- A faculty member who believes that the content of her or his course does not lend itself to a scheduled examination must obtain approval for an alternative arrangement from the majority of the members of his or her academic department and college dean. Notification of the approved arrangement shall be given to the Office of the Registrar. Except for abnormal circumstances, the approval and notification shall be made by the end of the first week of classes.
- To change the requirement specifying that final examinations shall be worth no less than 20 percent nor more than 40 percent of the course grade, there must be agreement for the change by the faculty member(s) in charge of the class, a majority of the members of his or her academic department, and the appropriate college dean. Except for abnormal circumstances, the approval and notification to students will be made by the end of the first week of classes. If approved, the change may remain in effect for the faculty member for the duration of this policy or until the course is resubmitted to the curriculum committee.
- In order to change the time and place scheduled for a final examination, there must be agreement for the change by the faculty members(s) in charge of the class, 100 percent of the students in the class, and the appropriate college dean. This change must be made by the middle of the semester.

Student opinion in this matter will be determined by secret ballot with the faculty member in charge of the vote. If for some reason a change is made in the time and date of a final examination that results in a student conflict, the faculty member will

arrange to provide a make-up opportunity during the examination period.

- If the student has a scheduling conflict during the final examination period resulting in an excessive number of final examinations scheduled for one day, the following procedure for rescheduling the final examination shall apply and be completed by at least two weeks before the end of regularly scheduled classes. The student should select two of the scheduled examinations to be taken during the designated time according to the following priority of choice:
 1. Courses offered by the major department,
 2. Additional required courses in the major program,
 3. Other courses.
- The additional final examination(s) should be rescheduled with consultation of the relevant faculty on a mutually convenient time. Assistance in the rescheduling of examinations may come from such individuals as the student's adviser, department chairperson, or academic dean.
- Unless returned to the student, all graded final examinations must be available for student review for at least the next full semester following the final examination.

Academic Integrity Policy and Procedures

Policy—Bloomsburg University students are expected to be honest in all their academic work; this means they will not engage in any of the following acts:

- Cheating on examinations including nonauthorized use of books or notes, use of crib sheets, copying from other student's papers, exchanging information with another student orally or by signals, obtaining a copy of the examination illegally, and other similar activities.
- Plagiarism in term papers, themes, essays, reports, take-home examinations, etc. (To plagiarize is to steal or use without acknowledgment the ideas, words, formulas, computer programs, etc. of another person.)
- Falsifications including forging signatures, altering answers after they have been graded, insertion of answers after the fact, erasure of a grader's marking, etc.

A student found guilty of academic dishonesty may be subjected to a full range of penalties from reprimand to expulsion from the university.

Procedures—A faculty member who believes that a student has violated the academic integrity policy should use the following procedures to resolve the matter.

- Reprimand the student orally or in writing.

A faculty member also is authorized to assign a zero in the work tainted by the academic dishonesty and/or assign the grade of E for the entire course (A student may file a grievance against this action.); and/or
- File a written complaint against the student with the Student-Faculty Judicial Board. The complaint must describe academic dis-

honesty that is alleged to have taken place and must request that the matter be shared by the board.

All subsequent procedures shall follow those of the judicial system.

**Academic
Advisement**

Incoming students, who indicate and are offered admission to their preferred curriculum, are assigned to faculty advisers who specialize in advisement in these areas. Assignments to advisers are made by the coordinator of academic advisement with advice of department chairperson and deans.

Applicants for admission who are undecided about their curriculum state *undeclared* on the application instead of specifying a curriculum. These applicants are considered general studies students and will declare a specific major at the appropriate time. These students are advised or assigned to advisers by the coordinator for academic advisement.

Students with questions or problems should seek assistance from the Office of Academic Advisement, Room 16, Ben Franklin Hall (717) 389-4271.

**Change of
Area of Study
(Major)**

A student who wishes to change from one area of study to another must file a request to do so in the Office of Academic Advisement.

Permission to enter the new area of study may require the written approval of the department chairperson in which it is offered. In this case, approval may depend upon such factors as overall grade point average, available space, and recommendations from departmental committees.

It must be very clearly pointed out that any declaration or change in the area of study (major, minor, career concentration, advisement area) must be officially recorded in the Office of Academic Advisement. It also must be done by the student and while school is in session.

In addition to the first major, which is the minimum required to graduate, a student also may declare a second major, a minor, a career concentration, or an advisement area. Any combination is allowed as long as the student understands it may require additional time and/or credits to complete. The final verification of the completion of any of the above is provided by the department(s) or area(s) involved.

**Diagnostic
Testing Program
Policy**

This policy applies to testing that is not a part of the admissions procedure or course requirements. The coordinator of academic advisement uses diagnostic test results to assist with course placement.

Students will be selected for diagnostic testing based upon their predicted freshman year grade point average or performance in courses at Bloomsburg University. A predicted freshman year QPA is calculated for each new freshman at the time of application to the university. New students with a predicted QPA less than 2.5 will be given diagnostic test(s). Students whose college QPA falls below 2.0 will be considered for diagnostic testing based upon their circumstances. The specific area(s) of diagnostic testing will be determined by the pattern of SAT scores and either high school or college achievement. Students selec-

tively low in one of the admission testing areas (e.g., below SAT math of 450, SAT verbal of 430, or Test of Standard Written English of 43) will have diagnostic testing in areas which are selectively weak.

Results of these tests will be released to faculty and staff on a need-to-know basis only for diagnostic evaluation and remediation of the individual tested and/or evaluation of the testing program. This information will be released with appropriate interpretation to students and to other agencies as the student permits. These data may be released without student permission for research purposes with student anonymity assured.

Depending on the results of the review of the record and the diagnostic evaluation, an individual program may be provided.

If a student is identified and placed in a developmental course(s), the course(s) is considered a prerequisite before additional courses for credit can be taken in the corresponding area. Each student will be provided with a letter indicating course placement or the recommended resources available to assist them, such as tutorial services, tutorial labs, and the College Study Skills courses. Such developmental programs will be provided for a maximum of students within the budgetary limits of the university.

If a student is identified and placed in a developmental course(s), the course(s) is considered a prerequisite before additional courses for credit can be taken in the corresponding area. Each student will be provided with a letter indicating course placement or the recommended resources available to assist them, such as tutorial services, tutorial labs, and the College Study Skills courses. Such developmental programs will be provided for a maximum of students within the budgetary limits.

Academic Services

Tutorial/504 Services

The Office of Tutorial/504 Services offers a wide range of services designed to support and enhance the performance of university students. Peer tutoring is available upon request in a variety of courses, and is provided by students who have distinguished themselves by superior academic performance. Any student wanting tutorial service need only to complete a brief application in order to obtain this free service.

Services available through the 504 function seek to assist those students who bring special needs to the university. Interpreters, note-takers, and readers are just a few examples of the services available.

The office also serves as an advocate in issues of accommodation beyond the classroom and acts as liaison with various other campus offices. The office regularly contacts the state offices of Vocational Rehabilitation and Visual Services to ensure that students are receiving adequate support from both the university and other agencies. Candidates for admission to the university are encouraged to contact the office in conjunction with a visit to the Office of Admissions. The Office of Tutorial/504 Services is interested in providing prospective students

with a clear and comprehensive discussion of what will be available to them should they decide to enroll at the university.

Student Support Services

Student Support Services is a federally funded program housed at Bloomsburg University. It is designed to provide students with academic support as well as career and academic advisement. The program also offers information and referrals in such areas as financial aid, career/graduate school selection, and personal counseling. Additionally, the program offers cultural, social, and personal enrichment through a variety of planned activities.

The nucleus of the program, however, is academic. Its offerings include professional tutorial services with assistance from master tutors who hold advanced degrees in their respective fields. The tutors are familiar with the curricula as well as course requirements at the university and can provide invaluable assistance to program participants.

The program offers tutoring in writing, literature, speech, mathematics, accounting, economics, reading/study skills, natural and social sciences.

General assistance is provided for correcting deficiencies, answering questions, clarifying concepts, reviewing materials, and preparing for tests.

Participants are selected from a varied pool of applicants. This pool includes summer and fall freshmen, nontraditional students, and first generation college students, in addition to students who need academic and/or economic support.

The Student Support Services Office is in Room 311 of Bakeless Center for the Humanities. For more information, call 389-4278.

Upward Bound

The university presents the opportunity for eighth, ninth, and tenth graders from affiliated high schools to enroll in its Upward Bound program. Participation may continue through the summer after high school graduation. The program, open to students meeting certain academic and financial requirements, is geared to promote self-confidence and to make students better informed and thus, better prepared for life beyond high school. Upward Bound's ultimate goal for its students is completion of a program of higher education.

The program consists of two parts. In the first segment, students spend two hours a week at their own high schools involved in academic experiences which supplement their regular scholastic program and improve their academic performance. The program's counseling service provides close individual contact for discussing career, vocational, and personal interests within the high school setting. The second component of Upward Bound is a six-week summer residential experience on the Bloomsburg University campus. This segment provides concentrated academic work plus planned recreational, social, and cultural experiences, both on and off the campus.

Student Life and Services

It is desirable for each student to become involved in extracurricular organizations and activities in order to maximize their personal growth and development. A framework is provided to allow a student to expand academically, emotionally, and socially.

Commuting students are urged to arrange their travel schedules to permit them to participate in the varied activities and to spend as much time as possible on campus. The educational value of the many services provided depends upon the effort put forth by the individual student to become involved.

University Policy

"Bloomsburg University of Pennsylvania exists for the transmission of knowledge, the pursuit of truth, the development of students, and the general well-being of society. Free inquiry and free expression are indispensable to the attainment of these goals. As members of the academic community, students should be encouraged to develop the capacity for critical judgement and to engage in a sustained and independent search for truth."

This statement, quoted from the "Joint Statement on Rights, Freedoms, and Responsibilities of Students," has been acknowledged as a guiding principle in the normal operation of the institution. Students are responsible for understanding and abiding by the university's rules, policies, and regulations as stated in the *Undergraduate Catalog*, the *Pilot*, and the *Residence Hall Handbook*.

On-Campus Housing

Seven modern residence halls and an apartment complex comprise the university's on-campus residences accommodating a total of approximately 2,680 students. These facilities are described in the section on *Buildings and Facilities*.

Although students' housing preferences are considered whenever possible, the university reserves the right to alter the composition of residence halls.

Housing and food services are provided on a combined basis only for students living in the residence halls. Students living in the Montgomery Place Apartments have the option of a meal plan. Housing and food service agreements are binding for a specified period and may not be transferred or reassigned.

Freshmen under 21 years of age are required to live on campus or to commute from their parent's residence. If extenuating circumstances justify other housing arrangements, a written request for waiver of this residency requirement must be submitted to the director of Residence Life, Luzerne Residence Hall, Bloomsburg University, Bloomsburg, PA 17815.

Transfer students, upon acceptance to the university and payment of the admissions fee, are eligible for on-campus housing, but married students and/or students with families whose housing needs are atypical are not eligible.

Students must participate in an assignment process for housing on upper and lower campus in order to reserve a room for the following academic year. Eligibility requirements are subject to revision in response to fluctuations in enrollment figures and student demand for on-campus accommodations.

Details about residence hall rules and regulations are printed in the *Pilot*, the *Residence Hall Handbook*, the *Montgomery Place Apartments Handbook*, and the *Residence Hall and Montgomery Place Apartments Terms and Agreements*. Further information concerning on-campus or off-campus housing may be obtained by contacting the Residence Life Office at (717)389-4089.

Off-Campus Residency

All off-campus residences are privately owned and operated and are considered "independent" student housing. The university does not approve or recommend residences. Student off-campus residences are subject to periodic inspection by officials of the Town of Bloomsburg, and dwellings with four or more tenants must meet the standards of the Pennsylvania Department of Labor and Industry.

Although students must rely on their own initiative to find suitable accommodations, the Residence Life Office collects data on off-campus housing opportunities, prepares housing and landlord directories, and provides other useful information of interest to student and faculty tenants and their landlords. Before any rental property in the Town of Bloomsburg is accepted for listing in the university housing directory, the owner must submit the premises to an inspection by the town Code Enforcement Office and sign a statement pledging to provide equal opportunity in the rental of the property.

Because the university does not assign students to off-campus residences, negotiations are the sole responsibility of students and their landlords. The Residence Life Office will advise students on methods of solving such problems, and, if deemed appropriate, residence life personnel will mediate student-landlord disputes, but only on an informal, nonlegal basis.

Students planning to live off campus should have a clear understanding of their rights and responsibilities as tenants. Copies of model leases, apartment inventory checklists, departure notices, and town street maps are available to students. Upon request, residence life personnel will help student renters conduct pre- and post-occupancy inventories of their apartments. Off-campus students are advised to obtain insurance coverage for their belongings since most landlords do not assume liability for the loss of, or damage to, their tenants' personal property.

Students residing off-campus bear a dual responsibility as citizens of the Town of Bloomsburg and as members of the university community. The university cannot provide sanctuary from the law nor can it be indifferent to its reputation in the community it serves.

Community Government Association

All full-time and part-time undergraduate students who have paid the Community Activities Fee are members of the Community Government Association (CGA). Graduate students, faculty, and staff mem-

bers who have paid a Community Activities Fee also are members. Student Senate meetings are held every other Monday evening. The executive council, which consists of the officers and two senators, meets on alternate Monday evenings.

Student Organizations and Activities

Students are encouraged to take part in at least one extracurricular activity per semester. Approved student organizations are:

- A** Accounting Club
 Air Force ROTC
 Alpha Epsilon Rho
 American Chemical Society
 American Marketing Association
 Amnesty International
 Anthropology Club
 Arnold Air Society
 Association for Childhood Education International
 Association of Hispanic Students
 Association of Public Relations Students (APRS)
- B** Bicycle Club
 Biology Club
 Black Cultural Society
 Bloomsburg Fencing Club
 Bloomsburg Literary Journal
 Bloomsburg Players
 Bloomsburg Student Concert Committee
 Bloomsburg University Student Chapter of the
 Association for Computing Machinery
 Bloomsburg Ultimate Disk Club
 Bloomsburg University Rugby Club
 BOCS
 (Bloomsburg Organizations of Concerned Students)
 BU Advertising Club
 BUP Volleyball Club
- C** Campus Child Center Parent Association
 Catholic Campus Ministry
 Cheerleaders
 Chess Club
 Christian Student Fellowship
 Circle K
 Columbia Association for Retarded Children (CARC)
 Columbia Residence Hall Council
 College Republicans
 Community Arts Council
 Community Government Association (CGA)
 Commuters Association
 Concert Choir

- Contemporary Organization of Media Majors
- Council for Exceptional Children
- E** Earth Science Club
- Economics Club
- Elwell Residence Hall Council
- English Club of Bloomsburg University
- F** Fellowship of Christian Athletes
- Finance Club
- Forensic Society
- Free Spirit
- French Club
- Freshman Class
- H** Hillel (Jewish Fellowship)
- History Club of Bloomsburg University
- H.O.P.E (Helping Our Planet Earth)
- Husky Ambassadors
- Husky Singers
- I** Ice Hockey
- Image
- Intercollegiate Bowling Club
- International Relations Club
- Inter-Varsity Christian Fellowship
- J** Junior Class
- K** Kehr Union Program Board
- L** L.I.F.E. (Life Is For Everyone)
- Luzerne Residence Hall Council
- Lycoming Residence Hall Council
- M** Madrigal Singers
- Maroon and Gold Band
- Mathematics Club
- Medical Technology Club
- Men's Lacrosse Club
- Montour Residence Hall Council
- Music Educators National Conference
- N** National Residence Hall Honorary
- National Speech, Hearing, and Language Association,
Student Chapter of
- Northumberland Residence Hall Council
- O** *Obiter*
- Off-Campus Housing Association (OCHA)
- P** People Actively Creating Equality (PACE)
- Phi Beta Lambda (Nu Omicron Chapter)

- Philosophy Club
- Pi Kappa Phi
- Planning Club
- Political Science Student Association
- Pre-Law Club
- Project Awareness
- Protestant Campus Ministry
- Psychology Association

- Q** QUEST Student Leadership Group

- R** Radiological Technology Club
 Residence Hall Association (RHA)
 Russian Club

- S** Schuylkill Residence Hall Council
 Senior Class
 S.H.A.R.E.
 (Students Helping Adolescents Reach Excellence)
 Ski Club
 Ski Racing Club
 Society for Collegiate Journalism
 Society for Human Resource Management
 Society of Physics Students
 Sophomore Class
 Spanish Club (La Esquina Espanola)
 Student Art Association
 Student Nurses Association
 Student PSEA
 (Student Pennsylvania State Education Association)
 Student Trainer's Association
 Students Against Multiple Sclerosis
 Students of Sociology/Social Welfare
 Students of the Social Welfare Club
 Studio Band

- T** Table Tennis Club
 TREND
 (Turning Recreational Excitement in New Directions)

- U** University-Community Orchestra
 Upward Bound Alumni Association
 Urban Education Association

- V** *Voice, The*

- W** WBSC, WBUQ – campus radio stations
 Weightlifting Club
 Women's Choral Ensemble

- Y** Young Democrats

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Publications

Students who are interested in journalism have an opportunity to join the staffs of student publications. Through this activity, a student can contribute significantly to campus life while gaining valuable experience for future work in either commercial or school journalism.

THE VOICE—The university's student newspaper, *The Voice*, is published biweekly and is funded by the Community Government Association (CGA) and distributed free throughout the university community. Students are responsible for most of the written material and for the newspaper's production.

OBITER—The *Obiter* is the annual yearbook and pictorial of activities and highlights at Bloomsburg University. It is funded by the C.G.A. and is distributed free to members of the senior class upon graduation. Other members of the university community may purchase copies at the University Store.

BLOOMSBURG LITERARY JOURNAL—*Bloomsburg Literary Journal* provides students and faculty with an outlet for their creative works. It is distributed during spring semester.

PILOT—The student handbook, the *Pilot*, is edited by students under the supervision of the dean of Student Life and funded by C.G.A. It contains essential information about requirements, procedures, and policies established by the university.

Honor and Professional Societies

National honor and professional societies foster educational ideas through scholarship, social activities, and moral development. Campus chapters are:

Alpha Psi Omega	Phi Sigma Pi
Beta Beta Beta	Pi Kappa Delta
Delta Mu Delta	Pi Omega Pi
Delta Phi Alpha	(Alpha Delta Chapter)
Kappa Delta Pi	Psi Chi
Kappa Mu Epsilon	Sigma Tau Delta
Omicron Delta Epsilon	Tau Beta Sigma
Phi Kappa Phi	

Social Fraternities and Sororities

The Inter-Fraternity Council (I.F.C.) serves as the governing body of the nine social fraternities and coordinates rushing, pledging, and programming. The social fraternities are:

Beta Sigma Delta	Gamma Epsilon Omicron
Delta Pi	Kappa Alpha Psi
Phi Sigma Xi	Tau Kappa Epsilon
Pi Kappa Phi	Theta Chi
Sigma Iota Omega	

The Panhellenic Council is composed of representatives of the 12 social sororities. The council coordinates rushing and pledging activi-

ties and endeavors to enhance friendship and social relations between sororities and individual women. The social sororities are:

Alpha Kappa Alpha	Delta Phi Epsilon
Alpha Sigma Alpha	Phi Delta
Alpha Sigma Tau	Phi Iota Chi
Chi Sigma Rho	Phi Sigma Sigma
Chi Theta Pi	Sigma Sigma Sigma
Delta Epsilon Beta	Theta Tau Omega

Students may also choose to participate in the activities of Alpha Phi Omega, a service fraternity.

Student Services

Kehr Union—The Kehr Union Building closed at the end of Spring Semester 1991 and will reopen for Fall Semester 1992. During this hiatus, Student Development and Student Activities offices and a conference room have been moved to the ground floor of Elwell Residence Hall. The Community Activities Office and student offices including C.G.A., Program Board, *Obiter*, *Voice*, Black Cultural Society, and Volunteer Services can be found at Husky Korners on the corner of East Street and College Hill. The Snack Bar and Mailroom are now in the Bookstore Annex. The Union's Information Desk is in the lobby of the University Store. The Information Desk's telephone number is unchanged (389-3900). The university is making a considerable effort to maintain the telephone numbers of transplanted offices and personnel.

The Program Board plans many of the activities held on campus. For information, call 389-4402.

Dining Facilities

Scranton Commons—Extensive renovation of the William W. Scranton Commons began in June 1991 with completion targeted for fall 1991. Improvements will add two atriums to the structure, a café featuring quick-serve foods, an expanded faculty dining room (the Pennsylvania Room), a special events dining area (the University Room), offices for the Food Service Department, and bring the seating capacity to 1,265. Cafeteria-style food services are furnished by a professional food service vendor. The lobby area abutting the Second Street entrance to the Commons was converted to a pizza shop, Itza Pizza, during the 1990-1991 academic year and has become a popular dining spot with students. A convenience store has also been added in a lobby area.

Members of the university community may eat in the Scranton Commons at published transient rates. The faculty and staff dining room is open for lunch to university employees, Monday through Friday.

Group meals are available to campus organizations; these may be arranged through the food service vendor subject to approval of the Residence Life Office and the Business Office 48 hours in advance of the event. Banquets and parties for outside groups may be reserved through the same procedure 30 days in advance.

Monty's, located on upper campus, is another new food service facility. Seating for 60 persons is now feasible with the recent addition of an atrium to the front of the building. There is a snack bar in the bookstore annex that is open to students, members of the university community, and visitors to the campus.

**Meal Plan
Options and
Flex Dollars**

All students who are living in campus residence halls are required to purchase a meal plan. Students who live off-campus or in the Montgomery Place Apartments may purchase a meal plan at the Business Office in Waller Administration Building, but they are not required to do so.

The meal plan provides a cash equivalency option which allows students to purchase a certain dollar amount at each meal in the various food facilities on campus including the pizza shop and snack bar. After making a selection, the cash price of the meal is totaled. If the cost is under the prescribed amount, there is no charge. If it exceeds this amount, the difference must be paid in cash or in flex dollars. One cash equivalency meal equals one board meal.

Flex funds, which are part of the meal plan and may be purchased separately by students living off-campus or in the Montgomery Place Apartments, broaden a student's options. These dollars can be used at any food facility. Each time a student uses flex funds, the expenditure is subtracted from the balance of the student's flex account. Students living in the residence halls can add to their flex account in increments of \$25. Students living off-campus and in the Montgomery Place Apartments can purchase flex dollars at the Business Office in \$25 increments once they have made an initial minimum deposit of \$100 into their flex account.

Health Services

University Health Center—The University Health Center is on the third floor of the McCormick Human Services Building. All students seeking health care or counseling about a health problem should report to the Health Center between 7 a.m. and 8:30 p.m., Monday through Thursday; 7 a.m. to 6 p.m., Friday; 3 p.m. to 6 p.m., Sunday; or call 389-4451/4452. If an emergency should occur when the Health Center is closed, students may report directly to The Bloomsburg Hospital Emergency Room.

The University Health Center is a walk-in clinic staffed by registered nurses. Nurses may refer students to physicians affiliated with the university on a part-time basis as needed for further treatment. The doctors' schedule is posted in the Health Center. Services received at the Health Center are covered by the health services fees and provided free of charge to students. Medical services provided at The Bloomsburg Hospital and elsewhere will require compensation (with the exception of The Bloomsburg Hospital emergency room fee).

Absence Due to Illness—If a student is ill and must miss class, the student should contact all involved faculty as soon as possible, so an understanding can be reached between professor and student. In case of a severe illness for which a university physician advises bed rest and/or

hospitalization, the Health Center will notify all concerned faculty by written memo.

Ambulance Service—Ambulance service, paid for by the University Health Center, is available to Bloomsburg University students. Students may use this service if they are residing in on-campus or off-campus housing or if they are involved in an accident which occurs within a reasonable distance of the university.

In case of a medical emergency on campus, call the Bloomsburg Ambulance Association using the Columbia County emergency number (784-7911), then contact University Police (389-4168) to provide an escort for the ambulance to the emergency area. If the injury or illness has been self-induced, the student will bear the cost of the ambulance.

Family Planning—A family planning center is located at 1123 Old Berwick Road, Bloomsburg, and offers services for gynecological exams, contraception, V.D. screening and treatment, pregnancy testing, and counseling. Referrals for non-patients and partners can be obtained by calling Family Planning, from 9 a.m. to 5 p.m., Monday through Friday at (717)387-0236. All visits are scheduled by appointment and all services are confidential. University students are provided services at a reduced rate.

Student Insurance

Bloomsburg University requires that all students have appropriate accident and sickness insurance coverage. If you do not have a health insurance plan, you may choose to purchase either the current student health insurance plan for which we provide information, or another plan of your choice.

The student health insurance plan is designed to meet the needs of the insured individuals at the least possible cost, balancing necessary coverage with the ability of the student to pay. When considering this policy, review the plan carefully to determine if it adequately meets your health care needs.

Filing of claims will be the responsibility of the student. Claim forms are available at the University Health Center. All questions concerning claims and coverage should be directed to the insurance company. The company provides a toll free telephone number for this purpose.

Application for the insurance plan will be mailed with your registration materials or can be obtained at the Health Center. Any change in insurance status must be reported immediately to the Health Center.

Insurance Coverage for Athletics—All students participating in intercollegiate sports must have their own primary insurance coverage. As a supplement to the student's own plan, the Community Government Association provides a policy that acts as a supplement.

The basic benefits, under the athletic insurance program, are provided on an excess basis. This means the expenses will be submitted to the parent's medical insurance plan prior to any payment or consideration by the university's company. Injuries requiring less than \$100 of

medical expenses will be covered by the university's plan and need not be submitted to the parent's medical plan. The maximum benefit for injury to sound natural teeth is \$200 per tooth. Damage to temporary teeth (bridge, partial, etc.) is not covered.

In addition to the basic benefit plan, which covers up to \$25,000 in related expenses, all student athletes are covered under a Lifetime Catastrophic Insurance Plan. Under this plan, benefits would be payable for life with no limit on the total dollar amount, on expenses incurred, for hospital care, surgical services, extended care facilities, and rehabilitation services.

Note: Insurance coverage offered to students is based on negotiated contracts and, therefore, is subject to change.

**Center for
Counseling and
Human
Development**

The Counseling Center assists students in developing their human growth potential and in coping with personal problems through individual, group, and workshop formats in a variety of subject areas. Some of the areas include study skills, time management, assertiveness, effective communication, recognition of issues related to racism and sexism, human sexuality, drug and alcohol abuse, eating disorders (anorexia and bulimia), stress, relaxation, and many other topic areas which relate to daily living. Specialized counseling is provided for students participating in Act 101 and Educational Opportunity Programs. In addition to individual counseling, the counselors present outreach and group seminar-workshops in classes, residence halls, and other campus settings.

The center coordinates and directs institutional testing (GRE, NTE, MAT, CLEP, and PTCTP). Other center services include professional consultation for faculty and staff, and advisement for academic or nonacademic grievances.

All Counseling Center services and records are confidential. Release of any information to other persons and agencies is only undertaken with consent of the student, except as provided for by state and federal law.

Located in Room 17, Ben Franklin Hall, the center is open weekdays from 8 a.m. to 4:30 p.m. Appointments can be made for evenings and weekends. After-hours contact with a counselor can be made via the office answering machine (389-4255). For appointments or additional information about counseling services, call (717) 389-4255.

**Institutional
Testing**

Specific state and national tests for special purposes are administered by the coordinator of testing upon request as a service to the Bloomsburg University community. Special requests should be made to the coordinator in Room 17, Ben Franklin Hall or by calling (717)389-4255.

Tests such as the PTCTP (Pennsylvania Teachers Certification Testing Program), GRE, MAT, NTE, NLN Mobility II, and CLEP are administered on campus on a regular basis. Applications for these tests and the GMAT, LSAT, pharmacy and optometry tests are available at the Center for Counseling and Human Development, Room 17, Ben Franklin Hall. For more information, contact the center .

Orientation

At the university, enrollment involves much more than an educational endeavor. There are career, personal, and social concerns that students address, all of which are important to achieving a well-balanced college experience. Orientation helps to meet these concerns by providing for the initial contacts with faculty in the crucial academic advisement process; familiarizing students with the university; its personnel services, facilities, and students; promoting good human relations among people from varied racial, economic, and social backgrounds; and providing for completion of certain pre-enrollment matters involving scheduling, identification cards, meal tickets, and program evaluations.

The university requires a comprehensive orientation program for all newly admitted degree students. Those entering in the fall semester are required to participate in a summer orientation and students whose enrollment is January, attend orientation on the Sunday prior to the first day of classes. Information about this program is sent to all new students when they are accepted for enrollment and pay their admission fees.

Every effort is made to assign an orientation date that will accommodate those traveling from great distances or who have military obligations.

Due to the important nature of the testing and academic advisement/scheduling process, local students who may have visited the university prior to orientation will still be expected to participate fully in an orientation session.

Orientation helps students achieve a good beginning at the university. However, students have the responsibility of familiarizing themselves with appropriate segments of the *Undergraduate Catalog* and the *Pilot* and with programs and policies pertinent to them. Assistance is available when problems or questions arise. For additional information, call the Orientation Office 389-4595 in Room 14, Ben Franklin Hall.

Student Grievances

Academic Grievances—Procedures have been established and are outlined in the *Pilot* to provide students with a system to register complaints of alleged academic injustices relating to grades or other unprofessional conduct in the traditional teacher/pupil relationship.

Nonacademic Grievances—Procedures also are available and outlined in the *Pilot* to provide students with a system to register complaints of alleged injustices relating to violation, misinterpretation or discriminatory application of nonacademic policies and procedures, and/or the conduct of professional, nonprofessional, and student employees.

Career Development Center

The Career Development Center offers career counseling and planning services to undergraduate and graduate students, continuing education students, and Bloomsburg University alumni. In addition to individual counseling, an up-to-date career library containing printed materials and audiovisual equipment is available.

Career information and job-hunting seminars, workshops, and programs sponsored by the center are held throughout the year. DISCOVER, a computer-based, career guidance system, is available for

students interested in making career decisions. Other services offered by the center include campus interviews, vacancy lists, and credential services.

Veterans' Affairs An office for veterans' affairs is maintained in the Office of the Registrar, Room 6, Ben Franklin Hall. It is staffed by work-study veterans whose duties consist primarily of certifying the enrollment of veterans and the dependents and widows of veterans to the Veterans Administration. The office also assists in education-related matters such as educational benefits from the Veterans Administration, tutoring, and financial aid.

University Store The University Store sells books, supplies, imprinted clothing, and many other sundry items. Routine hours are from 8 a.m. to 9:30 p.m., Monday and Tuesday; 8 a.m. to 7:30 p.m., Wednesday and Thursday; 8 a.m. to 4:30 p.m., Friday; and 10:30 a.m. to 2:30 p.m., Saturday.

Campus Postal Service The University Mail Room is adjacent to the University Store and is open from 8 a.m. to 4:30 p.m., Monday through Friday. The campus postal service assist students with mailing concerns.

Community Arts Council The Community Arts Council is largely responsible for the numerous diverse cultural attractions brought to the university campus each year. The Council, which is comprised equally of faculty members, students, and community representatives, sponsors the Celebrity Artist Series. This program features a clutch of notable performing artists and groups—symphony orchestras, musical troupes, dance companies. Faculty, staff, and students who have paid a Community Activities fee are permitted free general admission seating. A subscription plan is also available. For details, contact the Office of Student Development.

Art on Campus Works of art can be found on exhibition throughout the year in the university's art gallery in Haas Center for the Arts. Under the direction of the Art Department, exhibitions are held monthly, and a special exhibition of student art work is held each spring.

The department also maintains a permanent art collection with more than 300 works of art displayed in buildings across the campus. Numerous pieces of sculpture adorn the walkways and gardens of the university's sprawling 173-acre site.

QUEST QUEST is modeled after the Outward Bound Program and emphasizes the development of individual potential and teamwork through challenging and adventurous experiences, primarily in the outdoors. The development of leadership, communication, trust, and teamwork are important dimensions of the program.

QUEST courses are designed to provide participants with recreational, educational, and personal growth experiences. Courses are offered to students, faculty, and staff of Bloomsburg University, other educational institutions, businesses, service organizations, and resi-

dents of Eastern Pennsylvania. Courses are primarily in Pennsylvania, though several times a year groups travel as far afield as Alaska, Colorado, Mexico, and South America.

QUEST courses include:

Backpacking	Mountaineering
Bicycling	Rock Climbing
Canoeing	Ropes Course
Caving	Snowshoeing
Cross Country Skiing	Whitewater Rafting
Initiatives/New Games	Winter Camping
Kayaking	Team-building

QUEST offers a career concentration in conjunction with other departments of Bloomsburg University, which enables a student to graduate with academic skills and experiences appropriate for positions in human service, outdoor education, and management.

QUEST plays a large role in the Freshmen Leadership Development Program, which is offered to select incoming freshmen. The intention of their program is to prepare interested freshmen for leadership responsibilities while attending Bloomsburg University, and for the broader responsibilities of civic and professional leadership. Students are encouraged to apply for this program.

QUEST offers a seven day Orientation Program for Freshmen in the wilderness prior to the commencement of Fall classes. The program includes backpacking, rock climbing, and rappelling. This program creates a great opportunity for students to get to know each other and share an adventurous and educational experience. Many of QUEST's student leaders emerge from this program.

QUEST manages an Equipment Rental Center providing a wide range of outdoor equipment for students, faculty, and staff and for residents of the community. For detailed information on the QUEST program, contact the QUEST office in Walter Simon Hall at 389-4323.

Athletics, Intramurals, and Recreation

The university is a member of the National Collegiate Athletic Association, the Eastern College Athletic Conference, the Pennsylvania State Athletic Conference, and the Eastern Wrestling League.

The intercollegiate program includes baseball, basketball, football, cross country, mens and womens soccer, swimming, tennis, track, and wrestling for men; and basketball, field hockey, cross country, lacrosse, softball, swimming, tennis, and track for women.

Men's intramural sports include baseball, tennis, track, cross country, horseshoes, soccer, water polo, weight training, softball, basketball, table tennis, volleyball, wrestling, gymnastics, golf, handball, racquetball, and straight pool.

Intramural sports for women include volleyball, basketball, badminton, table tennis, softball, horseshoes, flag football, bowling, tennis, racquetball, floor hockey, and aerobic exercise.

Intramural coeducational sports include teniquoit, volleyball, softball, tennis, horseshoes, golf, and racquetball.

When not in use for instruction, intercollegiate athletics, or intra-

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murals, athletic facilities are available for recreational use by students. These include an indoor track and tennis court, Nautilus equipment, a weight room and sauna, racquetball courts, two swimming pools, and a physical fitness center.

Motor Vehicle Registration

Operation of a motor vehicle on the college campus is a privilege explained in the *Motor Vehicle Regulations* available in the University Police department office located on the ground floor of the University Store building.

In order for a resident student to have an automobile on the university campus, the student must be either 21 years-of-age or have earned 64 semester hours.

Special requests for permission to have a motor vehicle on campus from students not normally eligible are covered in Section 604 of the

Eligible university personnel desiring to operate and/or park a motor vehicle on campus in order to use school facilities are required to register their vehicles with the university and obtain from the University Police department either a parking decal or a temporary permit when they arrival on campus. There is no grace period. Failure to adhere to this provision results in a \$5 penalty. Students may hold only one valid parking decal at a time; however, emergency situations may warrant issuance of a temporary permit.

Visitors' Parking

Visitors should obtain a visitors' parking permit from one of several offices on campus. Locations include Carver Hall, Waller Administration Building, Nelson Field House, Office of University Police, Navy Hall, Andruss Library, and Ben Franklin Hall.

On weekdays, overnight visitors must park in the hospital area and obtain a visitor's permit from the University Police department. On weekends, there is open parking, and visitors may park in either red, black, or green areas only.

A visitor cited for a parking violation who wishes to appeal the violation should report to the University Police Office with the ticket before leaving campus.

Campus Child Center

The Bloomsburg University Campus Child Center is located on the lower level of Elwell Residence Hall. Its services provide care for the pre-school children (18 months to 6 years old) of university students, employees, and alumni from 7:45 a.m. to 5 p.m., Monday through Friday (fall and spring semesters and summer sessions). Daycare is available for school-age children (6-12) after school and when area public schools have a holiday and the university is in session. A summer program, designed for children ages 2 to 10, is also offered. Parents may use the center on a drop-in or full-time basis throughout the year. However, all children must be registered in advance. Registration materials can be obtained at the center.

The Campus Child Center is licensed by the Pennsylvania State Department of Public Welfare. It is governed by the Pennsylvania State Day Care Service for Children Regulations. The Community Govern-

ment Association provides funding to help support the center.

The center provides a nursery school program designed especially for the growth and development of the preschool child. Varied activities are planned to meet the social, emotional, cognitive, and physical needs of the child. The holistic, developmental approach provides the flexibility to meet individual differences. Quiet and active play, small and large group activities, snack, rest, and sleep are included. The curriculum is "child centered" providing numerous opportunities for the children to learn when they show interest and readiness. It is "teacher directed" through guidance and places an emphasis on creative learning, discovery, and exploration. The program provides opportunities to strengthen individual and cognitive processing abilities in order to prepare children for the academic learning that takes place in elementary school.

The youngest children (18 months to 3 years of age) are given freedom to play and explore within a carefully structured environment. Activities are provided, and children choose as interest dictates. Socialization, developing a sense of independence, and establishing trust and rapport with caring adults are key elements of the toddler program.

Operating fees for the Campus Child Center are as follows:

Students

Community Activities Fee paid

\$1.10 per hour for one child
\$1.00 per hour for each additional child
\$40 per week for full-time care
(5 or more hours a day)

Community Activities Fee not paid

\$1.75 per hour for first child
\$1.50 per hour for each additional child
\$60 per week for full-time care
(5 or more hours a day)

Staff

\$1.50 per hour for first child
\$1.25 per hour for each additional child
\$52.50 per week for full-time care
(5 or more hours a day)

Faculty

\$1.75 per hour for first child
\$1.50 per hour for each additional child
\$60 per week for full-time care
(5 or more hours a day)

Campus Child Center fees for 18 to 24-month-old children

Student — \$1.25 per hour/\$8.50 per day
Staff — \$1.65 per hour/\$12 per day
Faculty — \$2 per hour/\$14 per day

Alumni Fee

\$2 per hour

\$14 per day

Operating fees are subject to change. The center's operating days follow the academic calendar. For additional information, contact Judy Coleman-Brinich, director of the Campus Child Center, Elwell Residence Hall, Bloomsburg University; (717) 389-4547.

The Undergraduate Program

The undergraduate curricula are administered by the three colleges: College of Arts and Sciences, College of Business, and College of Professional Studies. The requirements for the curricula are stated in the chapters which deal with these colleges.

Upon admission, students are admitted to eight broad academic categories. A student must commit himself/herself to a specific major and receive admission to that program of study by the end of the sophomore year. (Students who transfer to Bloomsburg University with Junior standing have a one-semester grace period on this requirement.)

When a student makes a tentative choice of a major she or he is assigned preliminary or prerequisite courses required in that major. In curricula where admission is selective or restrictive at the junior year entry-level, as in the case in several programs in the College of Professional Studies, the university is not bound to admit the student if he or she is not admissible according to the competition for available spaces or other selective criteria.

Students electing to major in two departments must have a major adviser in each department and meet all of the major requirements of each department and all of the general education requirements. (See the subsection on *General Education Requirements*.) Double majors in some departments may require more than the minimum 128 semester hours for graduation. Double majors in departments in two different schools must have the permission of both college deans to declare a double major.

Credit

Each curriculum that leads to a baccalaureate degree requires the successful completion of a minimum of 128 semester hours. A semester hour is ordinarily defined as the credit for one weekly period of 50 minutes of lecture, discussion or recitation for one semester. In some cases as in laboratory, studio or internship, there may not be a one-to-one correspondence between experimental time and credit.

General Education Requirements

The goals of the General Education program are to develop:

- An ability to communicate effectively;
- An ability to think analytically and quantitatively;
- A facility to make independent and responsible value judgments and decisions according to high ethical values and life goals;
- An appreciation of the need for fitness and lifelong recreation skills;
- A capacity for assessing the validity of ideas and an understanding of the approaches used to gain knowledge through the development of critical thinking abilities;
- A greater appreciation of theater, literature, art, and music through stimulation of one's creative interests;

- An understanding of our society and the relative position of an individual in this society;
- An understanding of the relationship between an individual and his/her physical and biological environments;
- A familiarity with the major contributions of human knowledge in the humanities, social sciences, natural sciences, and mathematics;
- An awareness and global understanding of the relative position of the individual in the world community.

**Specific
Requirements**

COMMUNICATION

9 semester hours

English 20.104 (3 semester hours) or two courses (6 semester hours) consisting of English 20.101 and one of the following English courses: 20.200, 20.201, 20.203, or any other course in English Literature with a writing component.

Select one additional course (3 semester hours) from the approved list of communication courses.

QUANTITATIVE-ANALYTICAL REASONING

3 semester hours

Select one course (3 semester hours) from the approved list of quantitative-analytical reasoning courses.

VALUES, ETHICS, and RESPONSIBLE DECISION MAKING

3 semester hours

Select one course (3 semester hours) from the approved list of values, ethics, and responsible decision-making courses. (The development of interdisciplinary courses such as technology, science, and human values is encouraged.)

FITNESS and RECREATION SKILLS

3 semester hours

Select one course (3 semester hours) from the approved list of fitness and lifelong recreation skill courses.

TOTAL = 15 or 18 semester hours

**Distribution
Requirements**

Thirty-six semester hours are required with 12 semester hours required from each of the three general academic areas of humanities, social sciences, and natural sciences and mathematics. No more than three semester hours from a given academic major may count toward this distribution requirement. Courses which an individual uses to satisfy the specific communication, quantitative/analytical reasoning, values/ethics, and fitness and recreation requirements may not be used to satisfy distribution requirements. Bloomsburg University Curriculum Committee (BUCC) or an individual academic department with the approval of the BUCC may exclude any of its courses from being counted as a distribution requirement.

Humanities

12 semester hours

Twelve semester hours from courses developing an understanding of approaches to gain knowledge in the humanities (Goal 5), creative interests in and appreciation of art, literature, music, and theater (Goal 6), knowledge of major contributions in the humanities (Goal 9), and global awareness (Goal 10). At least three different humanities departments must be represented in these 12 semester hours with two or more semester hours taken from each department selected. The humanities departments are art, communication studies, English, history, languages and cultures, mass communications, music, and philosophy.

Social Sciences

12 semester hours

Twelve semester hours from courses developing an understanding of approaches to gain knowledge in the social sciences (Goal 5), an understanding of our own society and the place of an individual in that society (Goal 7), knowledge of the major contributions in the social sciences (Goal 9), and global awareness (Goal 10). At least three different departments must be represented in these 12 semester hours with two or more semester hours taken from each department selected. Social sciences departments include anthropology, economics, geography, political science, psychology, and sociology and social welfare.

Natural Sciences and Mathematics **12 semester hours**

Twelve semester hours from courses developing an understanding of approaches to gain knowledge in the natural sciences (Goal 5), an understanding of the relationship of the individual to her/his environment (Goal 8), and knowledge of the major contributions in the natural sciences and mathematics (Goal 9). At least three natural sciences and mathematics departments must be represented in these 12 semester hours with two or more semester hours taken from each department selected. Natural sciences and mathematics departments include biological and allied health sciences, chemistry, earth science, physics, and mathematics.

TOTAL = 51 or 54 semester hours

**General
Education
Course
Requirements**

Required composition courses: 20.101 Composition I and either 20.200 Writing Proficiency Examination, 20.201 Composition II, or 20.203 Approaches to Literary Study. Students eligible for 20.104 Honors Composition are excused from taking 20.101, 20.200, 20.201, and 20.203.

Communication

3 semester hours

- 09.231 Technical Writing
- 10.101 French I and 10.102 French II
- 10.203 French III and 10.204 French IV
- 10.205 Applied Phonetics and Pronunciation
- 11.101 German I and 11.102 German II
- 11.203 German III and 11.204 German IV
- 12.101 Spanish I and 12.102 Spanish II

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- 12.203 Spanish III and 12.204 Spanish IV
- 12.205 Phonetics: Theory and Practice
- 13.101 Russian I through 13.104 Russian IV
- 14.101 Italian I and 14.102 Italian II
- 16.105 Chinese I and 16.106 Chinese II
- 18.101 Latin I and 18.102 Latin II
- 20.301 Creative Writing
- 25.103 Public Speaking
- 25.104 Interpersonal Communication
- 74.153 Introduction to Sign Language

Quantitative-Analytical Reasoning 3 semester hours

- 40.246 Business and Economics Math I
- 40.346 Business and Economics Statistics I
- 45.260 Basic Social Statistics
- 48.160 Basic Statistics
- 53.101 Mathematical Thinking
- 53.111 Finite Mathematics
- 53.114 College Algebra
- 53.118 Applied Matrix Algebra
- 53.123 Essentials of Calculus
- 53.125 Analysis I
- 53.141 Introduction to Statistics
- 53.241 Probability and Statistics
- 56.110 Introduction to Computer Science

Values, Ethics, and Responsible Decision Making

3 semester hours

- 09.213 Science, Technology, and Human Values
- 28.220 Ethics
- 28.290 Medical Ethics
- 28.292 Contemporary Moral Problems
- 28.294 Ethics, Politics, and Public Policy
- 41.105 Environmental Issues and Choices
- 42.210 Values in Conflict in 20th Century History
- 42.215 Global Issues in History: A Conflict of Values
- 44.207 Ethics, Politics, and Public Policy
- 46.102 Anthropology and World Problems
- 48.131 Psychology of Adjustment
- 48.254 Psychological Aspects Social Issues
- 50.230 Human Sexuality
- 50.254 Social Implications Biology
- 82.217 Alcohol: Use and Abuse

Fitness and Recreation Skills 3 semester hours

- 05.149 Aquatics-Beginning, Non-swimmers
- 05.150 Beginning Aquatics
- 05.151 Intermediate Aquatics
- 05.155 Swimnastics

- 05.200 CPR and Safety
- 05.214 Fencing
- 05.217 Bicycling
- 05.219 Tennis
- 05.222 Creative Dance
- 05.224 Fitness Dance
- 05.228 Gymnastics
- 05.230 Weight Training and Fitness
- 05.231 Archery
- 05.232 Bowling
- 05.233 Badminton
- 05.234 Golf
- 05.235 Riflery
- 05.236 Volleyball
- 05.237 Modified Physical Education
- 05.238 Racquetball/Handball
- 05.239 Square Dance
- 05.240 Fitness and Slimnastics
- 05.241 Judo/Self-Defense
- 05.243 Backpacking
- 05.244 Orienteering
- 05.245 Canoeing
- 05.246 Beginning Skin and SCUBA Diving
- 05.247 Rock Climbing
- 05.248 Basic Sailing
- 05.249 Synchronized Swimming
- 05.250 Lifesaving
- 05.270 Exercise and You
- 05.271 Intermediate Archery
- 05.272 Intermediate Bowling
- 05.273 Intermediate Golf
- 05.274 Intermediate Tennis
- 05.275 Intermediate Volleyball
- 05.276 Intermediate Judo
- 05.290 Special Topics (1 semester hour only)
- 05.298 Fitness and Wellness (1 semester hour only)
- 50.205 Introduction to Nutrition (1 semester hour only)

**Distribution
Course
Requirements**

Students who otherwise meet the prerequisites are permitted to take any course offered for two or more semester hours by the department in addition to the recommended introductory courses that follow, unless the course is expressly excluded for general education by the university curriculum committee or the department with the approval of the curriculum committee. Courses excluded will be announced in the class schedule and in the Student Scheduling System.

GROUP A - HUMANITIES AND THE ARTS

Art

- 30.101 Introduction to Art
- 31.215 American Art History
- 31.225 History of Architecture
- 31.235 Ancient and Medieval Art
- 31.236 Art From the Renaissance Through Impressionism
- 31.345 Art History of the Near East
- 31.346 Art History of the Far East
- 31.355 History of Modern Art
- 32.111 Drawing I
- 32.201 Ceramics I
- 32.221 Fabric Design I
- 32.231 Painting I
- 32.241 Sculpture I
- 32.251 Weaving I
- 32.261 Graphics I: Printmaking
- 32.275 Crafts I
- 32.395 Art and Culture of France

Communication Studies

- 25.103 Public Speaking
- 25.104 Interpersonal Communication
- 25.206 Oral Interpretation of Literature
- 25.220 Intercultural Communication
- 25.241 Voice and Diction

English

- 20.112 Practical Grammar and Usage
- 20.120 World Literature I
- 20.121 World Literature II
- 20.131 The Bible as Literature
- 20.151 Introduction to Literature
- 20.153 Folklore
- 20.220 British Writers I
- 20.221 British Writers II
- 20.222 American Literature I
- 20.223 American Literature II
- 20.224 Non-Western Literature I
- 20.225 Non-Western Literature II
- 20.231 Literature and Society
- 20.251 Literary Genres
- 20.280 Poetry

History

- 42.100 Transatlantic World in the 20th Century
- 42.112 Origins of the Modern World
- 42.113 The Modern World

- 42.121 United States History Survey:
Colonial Period to 1877
- 42.122 United States History Survey:
1877 to the Present
- 42.133 The Ancient and Medieval Worlds
- 42.141 The Modern Far East
- 42.142 Latin America:
From European Colonization to the Present
- 42.143 Black Africa
- 42.144 Islamic and Hindu Worlds:
Middle East, India, and Malaysia
- 42.208 Contemporary Issues in U.S. History
- 42.210 Values in Conflict in 20th Century History
- 42.222 Growth of Business in America
- 42.223 Economic History of the United States
- 42.224 The Immigrant Experience
- 42.227 The American Woman:
Accomplishments and Aspirations
- 42.229 Modern World Leaders
- 42.250 History of Science
- 42.277 History of Christian Religion
- 42.281 Military History I
- 42.282 Military History II

Languages and Cultures

- 10.101 French I
- 10.102 French II
- 10.203 French III
- 10.204 French IV
- 10.206 Structure of the French Language
- 10.207 Conversation: French Daily Life
- 10.211 Foundations of French Culture and Civilization
- 10.212 France Today
- 10.290 French Studies Abroad
- 10.295 Art and Culture of France
- 11.101 German I
- 11.102 German II
- 11.203 German III
- 11.204 German IV
- 11.206 Grammar and Composition
- 11.207 Conversation
- 11.211 German Culture and Civilization I
- 11.212 German Culture and Civilization II
- 12.101 Spanish I
- 12.102 Spanish II
- 12.203 Spanish III
- 12.204 Spanish IV
- 12.206 Structure of the Spanish Language
- 12.207 Conversation: Hispanic Daily Life and Customs

- 12.211 Spanish Culture and Civilization
- 12.212 Spanish-American Culture and Civilization
- 12.290 Spanish Studies Abroad
- 13.101 Russian I
- 13.102 Russian II
- 13.103 Russian III
- 13.104 Russian IV
- 14.101 Italian I
- 14.102 Italian II
- 16.105 Chinese I
- 16.106 Chinese II
- 16.211 Chinese Culture and Civilization I
- 16.212 Chinese Culture and Civilization II
- 18.101 Latin I
- 18.102 Latin II

Mass Communications

- 27.110 Mass Communications and the Popular Arts
- 27.190 History of Film
- 27.285 Cinema Appreciation

Music

- 35.101 Music Listening I
- 35.111 Maroon and Gold Band
- 35.112 Concert Choir
- 35.113 Women's Choral Ensemble
- 35.114 University-Community Orchestra
- 35.116 Husky Singers
- 35.130 Fundamental Musicianship
- 35.131 Music Theory I
- 35.132 Music Theory II
- 35.133 Sight Singing I
- 35.134 Sight Singing II
- 35.141 Violin
- 35.142 Viola
- 35.143 Violoncello
- 35.144 Double Bass
- 35.151 Organ
- 35.161 Trumpet
- 35.162 Horn
- 35.163 Trombone
- 35.164 Baritone
- 35.165 Tuba
- 35.171 Voice
- 35.181 Piano
- 35.191 Flute
- 35.192 Oboe
- 35.193 Clarinet
- 35.194 Bassoon

- 35.195 Saxophone
- 35.196 Percussion
- 35.221 Music History I
- 35.222 Music History II
- 35.224 Class Piano I
- 35.225 Class Piano II
- 35.226 Class Voice
- 35.227 Class Strings
- 35.229 Class Instruction in Brass

Philosophy

- 28.111 Introduction to Philosophy
- 28.220 Ethics
- 28.221 Plato and Aristotle
- 28.224 Descartes to Kant
- 28.228 Existentialism
- 28.270 Religions of the East
- 28.271 The Western Religious Tradition
- 28.303 Philosophy of Science
- 28.304 Philosophy of the Social Sciences
- 28.351 Theory of Knowledge

Theater Arts

- 26.102 Introduction to Theater Arts
- 26.112 Fundamentals of Acting
- 26.209 Theater Appreciation
- 26.215 History of the Theater

GROUP B - SOCIAL AND BEHAVIORAL SCIENCES

Anthropology

- 46.101 Introduction to Anthropology
- 46.102 Anthropology and World Problems
- 46.200 Principles of Cultural Anthropology
- 46.210 Prehistoric Archaeology
- 46.220 Human Origins
- 46.260 Men and Women:
An Anthropological Perspective

Communication Disorders

- 72.152 Introduction to Communication Disorders

Economics

- 40.211 Principles of Economics I
- 40.212 Principles of Economics II

Geography

- 41.101 World Physical Geography
- 41.102 World Cultural Geography
- 41.125 Weather and Climate
- 41.150 Elements of Planning
- 41.200 Geography of United States and Canada
- 41.201 Geography of Europe
- 41.202 Geography of Latin America
- 41.221 Economic Geography
- 41.242 Map Skills
- 41.258 Environmental Conservation
- 41.281 Special Topics in Geography:
Pennsylvania Folk Cultures

Political Science

- 44.101 Elements of Political Science
- 44.108 Contemporary Political Ideologies
- 44.120 United States Government
- 44.160 Nations, States, and Governments
- 44.181 Contemporary Issues in World Politics
- 44.366 Political Systems of Western Europe

Psychology

- 48.101 General Psychology
- 48.131 Psychology of Adjustment
- 48.210 Life-Span Psychology
- 48.211 Child Psychology
- 48.212 Adolescence
- 48.251 Social Psychology
- 48.254 Psychological Aspects of Social Issues

Sociology and Social Welfare

- 45.133 Introduction to Social Work
and Social Welfare
- 45.211 Principles of Sociology
- 45.213 Contemporary Social Problems
- 45.215 Racial and National Minority Groups
- 45.216 Urban Sociology
- 45.219 Religion and Society
- 45.231 Marriage and Family
- 45.242 Juvenile Delinquency
- 45.276 Science and Society

Special Education

- 70.101 Introduction to the Exceptional Individual

GROUP C - NATURAL SCIENCES AND MATHEMATICS

Biological and Allied Health Sciences

- 50.101 General Biology I
- 50.102 General Biology II
- 50.110 Biology of Animals
- 50.111 General Biology Laboratory
- 50.120 Biology of Plants
- 50.231 Biology of Aging
- 50.240 Introductory Microbiology

Chemistry

- 52.100 Chemistry and the Citizen
- 52.101 Introductory Chemistry
- 52.108 Physiological Chemistry
- 52.111 General Chemistry I
- 52.112 General Chemistry II
- 52.113 Chemistry Laboratory
- 52.118 University Chemistry

Earth Science

- 51.101 Physical Geology
- 51.102 Historical Geology
- 51.105 Environmental Geology
- 51.111 Physical Geology Laboratory
- 51.112 Historical Geology Laboratory
- 51.255 Meteorology
- 51.259 Oceanography

Mathematics

- 53.101 Mathematical Thinking
- 53.111 Finite Mathematics
- 53.112 Trigonometry
- 53.113 Pre-Calculus
- 53.114 College Algebra
- 53.118 Applied Matrix Algebra
- 53.123 Essentials of Calculus
- 53.125 Analysis I
- 53.126 Analysis II
- 53.141 Introduction to Statistics
- 53.201 Theory of Arithmetic
- 53.202 Geometry and LOGO for Elementary Teachers
- 53.231 College Geometry
- 53.241 Probability and Statistics
- 56.210 Algorithmic Processes for Computers

Physics

- 54.101 Basic Physical Science
- 54.103 Principles of Physical Science
- 54.104 Elementary Electronics
- 54.105 Energy: Sources and Environmental Effects
- 54.106 The Science of Sound
- 54.107 Applied Physics for Health Sciences
- 54.110 Introduction to Astronomy
- 54.111 Introductory Physics I
- 54.112 Introductory Physics II
- 54.211 General Physics I
- 54.212 General Physics II

Buildings and Facilities

Bloomsburg's campus is comprised of two tracts called the lower campus and upper campus with a total area of 173 acres. Lower campus comprises the original campus and adjacent areas subsequently acquired. It contains several residence halls, dining hall, university store, administration buildings, auditorium, library, academic buildings, and recreation areas. The upper campus encompasses E. H. Nelson Field House, Redman Stadium, Litwhiler Field, the Montgomery Place Apartments, Monty's (a food service facility), and practice areas.

Instructional Buildings

Bakeless Center for the Humanities, completed in 1970, contains classrooms, lecture halls, faculty offices, and an exhibit area. It is used primarily by the departments of English, philosophy, economics, and political science. The building was named for the Bakeless family including Professor Oscar H. Bakeless, a graduate of the school and former distinguished member of the faculty; his wife, Sara H. Bakeless, a graduate and former faculty member; their son, Dr. John E. Bakeless, a graduate, author, and recipient of the Alumni Distinguished Service Award; their daughter, Mrs. Alex Bakeless Nason, a graduate and benefactor of the school; and their daughter-in-law, Mrs. Katherine L. Bakeless, a graduate of the school and a nationally known author.

Hartline Science Center, completed in 1968, is an instructional building with modern classrooms, lecture halls, seminar rooms, laboratories, faculty offices, and an exhibit area; it accommodates the Departments of Chemistry, Physics, Biological and Allied Health Sciences, Geography and Earth Science. Its name honors Daniel S. Hartline, a former biology teacher, and his son, Dr. H. Keffer Hartline, a 1968 Nobel Prize laureate and recipient of an Alumni Distinguished Service Award.

Sutliff Hall, completed in 1960, contains classrooms and faculty offices of the College of Business. William Boyd Sutliff, for whom the building was named, was a mathematics teacher and the first dean of instruction at Bloomsburg State Normal School. An extensive renovation of Sutliff Hall was completed in July 1987.

The newest instructional building, the **James H. McCormick Center for Human Services**, was completed in 1985. It is the hub of the College of Professional Studies. Laboratories, seminar rooms, and the dean's office are located here. Classrooms and faculty offices for the Departments of Nursing and Curriculum and Foundations and for the College of Arts and Sciences' Departments of Communication Studies, Mathematics and Computer Science, Mass Communications, Psychology, and Sociology and Social Welfare also are found in McCormick. It houses the University Health Center, Audio Visual Resources, an autotutorial laboratory, and an educational media laboratory, as well as Radio and Television Services, a student darkroom, and laboratories to support in-

structional technology services. The Curriculum Materials Center and laboratories for programs in elementary and secondary education, nursing, psychology, and sociology can be found here. A student computer laboratory is located on the first floor. McCormick Center contains a number of general purpose classrooms and a multi-image projection room known as the University Forum.

Ben Franklin Hall, completed in 1930 for use as a campus laboratory school, now accommodates several administrative offices and services including Admissions, Registrar, Financial Aid, Student Life, Counseling Center, Tutorial /504 Services, Academic Advisement, Cooperative Education, Career Development, Orientation, Academic Computer Services, Administrative Computer Services, and a student computer laboratory.

Navy Hall was constructed in 1939 as a campus laboratory school but was converted during World War II for the use of candidates enlisted in the Navy V-12 Office Training Program. It now houses the Department of Communication Disorders and Special Education, the Reading Clinic, the Speech, Hearing, and Language Clinic, and a number of classrooms and offices.

Science Hall, commonly called "Old Science" to distinguish it from Hartline Science Center, was built in 1906. Renovated in 1988-1989, it provides department offices for anthropology, art, history, music, languages and cultures, and has several classrooms and studios.

Centennial Gymnasium, completed in 1939, contains a gymnasium that seats 1,200, an auxiliary gymnasium, a swimming pool, an adaptive lab, and offices and classrooms for health, physical education, and athletics. QUEST maintains an equipment area in the basement.

E. H. Nelson Field House on the upper campus was completed in 1972. It serves as the university's main sports arena and seats 2,600 spectators. There is an indoor track, a six-lane swimming pool with adjacent seating for 500 spectators, faculty offices, handball courts, classrooms, equipment rooms, a Nautilus room, and special facilities for physical training and therapy. The building is used for health and physical education classes, varsity athletic contests, recreational activities, and other campus events which draw large audiences. Free bus transportation is provided regularly between the field house and the lower campus. Dr. E. H. Nelson, for whom the building is named, was the director of athletics at the university for many years.

**Residence Halls,
Dining Rooms,
and Student
Union**

Columbia Residence Hall, completed in 1970, is a seven-story structure that houses 400 students. It contains lounges, study rooms, recreation areas, a special projects room, a guest suite, and an apartment for the residence director. Columbia is designated as a women's residence for 1991-1992. The alignment of residence halls according to coed and

single-sex residence is subject to revision based upon male/female enrollment figures and current student needs.

Elwell Residence Hall, completed in 1968, is a nine-story facility that can accommodate 609 students. It has recreation rooms and lounges, a guest suite, study rooms, and apartments for staff. On the ground floor is the Campus Child Center, the Records Center, and the AFSCME office. Elwell Hall is designated as a women's residence for 1991-1992. The residence hall was named in honor of Judge William Elwell, a former trustee; his son George E. Elwell, a graduate and former trustee; and his grandson G. Edward Elwell, a graduate and former French instructor at the university.

Luzerne Residence Hall, a four-story residence hall completed in 1967, accommodates 300 students. It has lounge and recreation areas, study rooms, and apartments for staff. Luzerne is designated as a men's residence for 1991-1992.

Lycoming Residence Hall opened in the fall of 1976. In addition to sheltering 250 students, the building offers lounges, study rooms, recreation areas, special project facilities, and an apartment for the residence director. It is designated as a women's residence for 1991-1992.

Montour and Schuylkill Residence Halls are four-story structures completed in 1964. Each lodges 250 students and is divided into two wings complete with recreation and lounge facilities, study rooms, guest suites, and apartments for resident staff members. Montour is designated as a men's residence for 1991-1992 and Schuylkill as the only coed residence.

Northumberland Residence Hall, completed in 1960, accommodates 200 residents. There are lounge and recreation areas, study rooms, and apartments for staff members. It is designated as a men's residence for 1991-1992.

Montgomery Place Apartments, located on upper campus, providing living accommodations for students. Constructed in 19 , the two and three bedroom apartments are clustered in

William W. Scranton Commons, completed in 1970, is an air-conditioned dining facility with 1,000 seats and a serving capacity of 2,900 persons per meal. Folding partitions permit flexibility of arrangements. A pizza shop and convenience store are located in the lobbies of the building. Additions to the Commons are currently underway and are scheduled for completion for the fall of 1991. The Commons is named in honor of William W. Scranton, governor of Pennsylvania from 1963 to 1967.

University Store, completed in 1956, was initially used as the college

commons, then from 1970 until 1973 as a temporary student union. The building has been remodeled and now serves as the campus store. Here students may purchase textbooks, sundry supplies, and clothing. The building also houses the Office of University Police and the campus post office.

Marguerite W. Kehr Union is currently undergoing major renovations, which are scheduled to be completed by the fall of 1992. Its name honors the late Dr. Marguerite W. Kehr, dean of women from 1928 to 1953.

**Administration
and Service
Buildings**

Waller Administration Building, completed in 1972, contains offices for Budget and Administrative Services; Purchasing; University Relations and Communication; Personnel and Labor Relations; Planning, Institutional Research, and Information Management; Department of Developmental Instruction; Affirmative Action; the dean of the College of Arts and Sciences; and the School of Graduate Studies. Waller also contains conference rooms, the Grants Office, the Business Office, and a central receiving area for university supplies and equipment. The building is named for D. J. Waller Jr., who served for 27 years as principal of the Bloomsburg Normal School.

Francis B. Haas Center for the Arts, completed in 1967, has a 1,900-seat auditorium, Marco and Louise Mitrani Hall, with a stage tailored for dramatic productions. There are classrooms; faculty offices for music and theater; facilities for music, debating, and drama groups; and a primary exhibit area, Haas Art Gallery. Dr. Francis B. Haas, for whom the auditorium was named, was president from 1927 to 1939. Prior to and following this period, he served as State Superintendent of Public Instruction in Pennsylvania.

Carver Hall, built in 1867, is the oldest building on campus. In addition to Gross Auditorium, Carver houses the Office of the President, Alumni Room, Development Office, University Advancement Office, and the Office of the Provost and Vice President for Academic Affairs.

Buckalew Place, originally the home of Charles R. Buckalew, a U.S. Senator from 1863 to 1869 and a trustee of the Normal School, was acquired by the Commonwealth for use as the president's home in 1926.

Boyd F. Buckingham Campus Maintenance Center, completed in 1970, houses offices, storage areas, vehicles, and workshops used by the plant maintenance and custodial staff. The building is named in honor of Boyd F. Buckingham, vice president for administration from 1974 to 1981.

Harvey A. Andruss Library, constructed in 1966, houses the university's extensive collection of bound volumes, microtexts, periodicals, and other source and reference materials for study and research. Dr. Harvey A. Andruss served as president of the institution from 1939 to

1969. Dr. Andruss established the division of business education and served as dean of instruction prior to becoming president.

Magee Center, former residence of the late industrialist Harry L. Magee, was donated to the university in 1988 by the Magee Foundation. The building houses the offices of the School of Extended Programs and functions as the school's public service center. The two-story stone structure was built in 1946-1947 on a large tract of land 1.5 miles west of lower campus. Its interior offers congenial surroundings for hosting university and community groups, conferences, training seminars, and other noncredit programs. The address of this off-campus facility is: 700 West Main Street, Bloomsburg, PA 17815.

Wilson House, 720 East Second Street, was a private residence located adjacent to the campus when the university acquired the property in 1988. It now harbors Upward Bound and guest facilities.

The **Tri-Level Parking Garage** on Second Street is a concrete structure completed in 1972 which accommodates approximately 200 vehicles.

University Services

Library Services

The Harvey A. Andruss Library was completed in 1966 and now houses the university's extensive collection of bound volumes, microtexts, periodicals, and other source and reference resources for study and research. The library was named for Dr. Harvey A. Andruss, president of Bloomsburg from 1939 to 1969.

The Andruss Library, a unit of Academic Affairs, has a total collection of more than 1,950,000 items. The book collection consists of more than 300,000 volumes including a large reference collection and more than 1.5 million microforms. The library also has federal, state, and local government documents. There is a collection of more than 5,900 phonograph records, a pamphlet file of 9,000 items, and a juvenile/young adult book collection. A special collection of books contains books of value.

General Collection—The Harvey A. Andruss Library houses the university's collections of books, periodicals, phonodiscs, and some audiovisual resources. Other resources are located in the Curriculum Materials Center.

The Circulation Desk maintains the Reserves Collection and the Current Periodicals Collection, which includes the latest three years of all journals received by the library. Print journals dating before 1983 are in accessible storage and are retrieved once each day by the Circulation Desk.

Special Collections—These collections contain unusual and rare first editions, autographed books, and illustrated books. Specific interests are art exhibition catalogs, covered bridges, and the literacy movement led by Frank C. Laubach.

University Archives—University Archives is the depository for archival and other materials relating to the history of Bloomsburg University. It is located on the ground floor of Bakeless Center for the Humanities.

Public Access On-Line Catalog (PALS)—The PALS catalog includes all books and phonorecords in the General, Juvenile/Young Adult, and Reference collections and many of the nearly 1.6 million pieces in the microform collection. The computerization of circulation during the fall of 1991 will allow patrons to determine whether materials are available on the shelves and speed the checking out of resources.

Reference and Instruction Services—Faculty librarians at the Reference Desk are available 79 hours each semester week to assist students with research methodology and the use of information resources. An interactive video program, a self-operated slide/tape presentation, and topical research guides are available to assist students in learning to use the library. Library faculty provide bibliographic instruction to classes.

Interlibrary Loan—Books and periodical articles not available in the library's collections may be borrowed from other libraries, usually without cost. Requests are accepted at the Reference Desk.

Database Searching—On-line access to more than 300 information databases through DIALOG and VU/TEXT is available through skilled faculty librarians. The databases cover most fields and are particularly thorough in the areas of business and the sciences and for bibliographic citations of journal articles. On-line searches are helpful in locating materials for research projects. Charges for this service are usually nominal. Requests should be made at the Reference Desk.

**Curriculum
Materials Center**

The basic objective of the Curriculum Materials Center, housed in the McCormick Human Services Center, is to locate, acquire, catalog, and make accessible curricular and instructional materials to preservice and inservice teachers. The resources housed in the center include elementary and secondary textbooks, a multicultural curriculum materials collection, curriculum guides, games, instructional materials kits, tests, and computer software. A cluster of Macintosh microcomputers and a laser printer also are available.

Reading Clinic

The Reading Clinic, located in Navy Hall, offers free diagnostic evaluation to children and adults. After evaluation, remedial counseling and instruction are provided if desired including parent counseling. This is a year-round service.

**Speech, Hearing,
and Language
Clinic**

Located in Navy Hall, the clinic provides a number of services to students, faculty, staff, and the community. These include speech, voice, language, hearing and hearing aid evaluation, educational-psychological training, speech reading, educational therapy for the hearing impaired, and parent counseling. The clinic is approved by the Professional Service Board of ASHA.

**University
Writing Center**

The one-on-one tutorial services of the University Writing Center are available to all students. The center provides conversation, advice, and ongoing support for writers at any stage of work on a writing project. Tutoring in reading, researching, note-taking, drafting, rewriting, editing, and proofreading is provided. The service is offered on a drop-in basis; no registration, referral, or appointment is necessary.

The center also works with teachers to design programs tailored to particular classes. Small group meetings, class demonstrations, and check-in points during a writing project can all be arranged with the center's director.

Located in Room 206, Bakeless Center for the Humanities, the center is open 20 to 30 hours each week, including some evening hours. The writing center's staff readers are successful student writers who work under the supervision of Director Terrance Riley. Interested students and faculty should contact the English Department for more information; 389-4427.

**Educational
Computing
Laboratory**

The Educational Computing Laboratory is located in 2229 McCormick Human Services Center. Computers are available for student and faculty use including 25 GSs and one Macintosh. The entire laboratory is networked and has a variety of current software for the GSs. The lab is supported by Academic Computing Services.

Other Services—Coin-operated photocopiers and microform reader/printers, phonodisc turntables, circulating microfiche readers, and facilities for duplicating microfiche are available.

**Athletics and
Recreation Areas**

Redman Stadium, used for football and track events is located on the upper campus and was completed in 1974. A permanent concrete stand on the west side provides seating for 4,000 spectators, and bleachers on the east side increase the total seating capacity to nearly 5,000. There is a press box for media personnel. Robert B. Redman, for whom the stadium was named, was assistant dean of men and head football and baseball coach from 1947 to 1952. Teams he coached gained state and national recognition.

Litwhiler Field, a baseball field completed in 1974, is located east of Redman Stadium. It was named in honor of Danny Litwhiler, former head baseball coach at Michigan State University. Litwhiler, who was coached by Dr. E. H. Nelson, studied at Bloomsburg in the late 1930s and played for several major league baseball teams prior to beginning his career as a baseball coach at Florida State University.

Practice Fields and Recreational Facilities—Nine practice fields are included in the total athletic complex on the upper campus. Fields for soccer, field hockey, lacrosse, and intramurals are available.

Both **Nelson Field House** on the upper campus and **Centennial Gymnasium** on the lower campus are used extensively for recreational activities as well as for classes and varsity athletic events. Lower campus athletic and recreational facilities include 18 Grasstex tennis courts, nine of which are lighted; softball and field hockey/lacrosse fields; and outdoor basketball and volleyball courts.

**The University
Foundation**

The Bloomsburg University Foundation, Inc., was established in 1970 as a nonprofit educational corporation to assist the institution. The foundation, which was reactivated by President Ausprich in January 1986, has the responsibility of securing private funds to maintain and enhance quality and excellence in all areas of the university. The Bloomsburg University Foundation conducts an active program of information, cultivation, and solicitation among alumni, corporations, foundations, and private individuals. The foundation membership includes outstanding business, professional, and civic leaders from throughout the Commonwealth.

**Institute
for Interactive
Technologies**

The Institute for Interactive Technologies (IIT) provides research, education, training, and entrepreneurial assistance for education and industry through the application of various interactive technologies. These technology based applications include computer-based interactive videodisc and computer-aided design systems. The IIT provides workshops for interactive video training and educational opportunities for students in the master's program in instructional technology.

**Television and
Radio Services**

TV/Radio Services, 1244 McCormick Human Services Center, provides assistance in instructional, informational, and other television production. Support is available for instructional and campus oriented programs as well as off-campus contract or charitable users, with priority given to academic endeavors. The facility is equipped with a multi-camera broadcast quality TV studio and state-of-the-art editing suite. A single camera VHS studio is available for unattended use by all academic programs on campus for instructional needs. Audio tapes can be recorded in the Audio Production Room.

**Audio Visual
Resources**

A part of TV/Radio Services, AV Resources is located on the ground floor of the McCormick Human Services Center, Room 1231. It houses the university's instructional film, video and audio recording collections. AV equipment of all types is provided to faculty and staff. Graphic production facilities are available for a variety of needs including instruction, meetings and events, conferences, and research. It offers limited production facilities to for the creation of transparencies, signs and posters, photographic slides. Supervision is provided for the Auto-tutorial Lab where students, faculty, and staff may view AV materials.

**Academic
Computing
Facilities**

Academic computing facilities are located throughout campus. Full open access areas are located in Ben Franklin Hall, McCormick Human Services Center, and Hartline Science Center. The Ben Franklin and McCormick computer complexes are open seven days a week for over 90 hours per week. There are 25 Macs, 12 Apple II, and 80 MSDOS computers in these areas. Limited access areas are in 307 Bakeless Center for the Humanities, 112 and 117 Sutliff Hall, 2205 and 2229 McCormick, and 101 and 205 Bakeless. Some classrooms are available for general use when not preempted for classes. Elwell Residence Hall also has its own cluster of computers.

The student lab in Room 1148 of McCormick has an AT&T 3B2/1000 minicomputer with 35 MS DOS PCs directly connected to it. Room 1146 houses 18 additional PCs computers.

The Ben Franklin student lab areas are in Rooms 1, 2, and 3. Room 1 is configured with PCs that can operate as terminals to the nearby UNISYS 2200. Room 1 and 2 have a cluster of 25 Macintosh computers that are networked to a laser printer. Room 3 has a cluster of Apple II computers. These microcomputers are attached to printers and are used by students for programming, word processing, and other related coursework. Macintosh, PC, and Apple II GS computers in the computer classrooms of Bakeless and McCormick are also available for general

access during periods of the day, evening, and weekends.

Students are permitted to connect their personal micros or terminals to either the 3B2 or the UNISYS 2200 to do work from their rooms, home, or residence. Such units are linked by means of a modem and a telephone line.

The work areas are supported by student consultants who are available to help students with basic problems in using the equipment and software in the lab areas. Students also work as programmers, operators, and aides helping to support academic and administrative computing at the university.

During the fall and spring semesters, access to the general work areas is normally 8 a.m. to midnight, Monday through Thursday; 8 a.m. to 8 p.m., Friday; noon to 5 p.m., Saturday; noon to midnight, Sunday.

The AT&T 3B2/1000 is a multi-user system. It has 35 terminal connections and 13 modems for dial-in access. Languages on the system include C, FORTRAN, COBOL, and PL/1. The Ingres and Oracle database also are used for instructional purposes.

The UNISYS system is the university's administrative computer but is used by students and faculty for instruction and research. The system is accessed by 30 terminal connections and 16 modems for dial-in access by students and faculty. Statistical programs, SPSS and BMD/BMDP, and FORTRAN, are available on this system.

Administrative Computer Services

The Administrative Computer Services facilities are located in Ben Franklin Hall. The Computer Center serves the university for administrative computing, but also provides selected services for student coursework and related information.

The UNISYS 2200 system is configured as follows: central processor 2200/402, 36,000,000 bytes of main memory; disk storage 10 gigabytes of on-line mass storage on 3 drives; tapes-5 units with dual density capabilities for off-line storage on magnetic tapes; and distributed communication processor-89 access ports supporting 365 university-owned terminals. The system operates under the OS-1100 operating system and supports all normal tape, disk, and telecommunication functions. Computer Services also maintains a UNISYS U600 UNIX system providing a gateway to the Internet.

Terminal direct attachment to the mainframe is provided in Ben Franklin Hall, Room 1; Sutliff Hall, Rooms 112 and 117; and Bakeless Center for the Humanities, Room 307. Students can access the mainframe through a modem at 300/1200/ or 2400 baud. Call (717) 389-4104 for details. Other lab networking is currently planned for connection via TCP-IP over ethernet lines. From these facilities, students can access the mainframe computer to obtain personal information related to course scheduling, advisement, billing, holds, and relevant biographic and demographic information.

Programming languages on UNISYS include: Assembler, COBOL, FORTRAN, and a CODASYL compatible data base. Numerous special purpose languages and packages also are available, including statistical and math programs such as SPSS, BMD, BMDP, and MATH Pak.

**Programs of Study
and Course Descriptions**

Course Codes

01	Developmental Studies	55	Marine Science
05	Health and Physical Education	56	Computer Science
09	Interdisciplinary Studies	60	Educational Foundations
10	French	61	Military Science-Aerospace Studies
11	German	62	Early Childhood Education and Elementary Education
12	Spanish	63	Reading
13	Russian	65	Secondary Education
14	Italian	67	Military Science-Army ROTC
16	Languages and Cultures	70	Special Education
18	Latin	72	Speech Pathology & Audiology
20	English	74	Studies in Hearing Loss
25	Communication Studies	79	Professional Studies
26	Theater Arts	82	Nursing
27	Mass Communications	86	Medical Technology
28	Philosophy	90	General Business
30	Art	91	Accounting
31	Art History	92	Computer and Information Systems
32	Art Studio	93	Management
35	Music	94	Office Systems
40	Economics	96	Finance
41	Geography	97	Marketing
42	History	98	Business Law
44	Political Science		
45	Sociology & Social Welfare		
46	Anthropology		
48	Psychology		
50	Biological and Allied Health Sciences		
51	Earth and Space Science		
52	Chemistry		
53	Mathematics		
54	Physics		

Department of Accounting

College of Business

Chairperson

Robert P. Yori

Lester J. Dietterick

E. Burel Gum

Robert Hogg

Dennis B. K. Hwang

Janice C. Shields

Professors

Richard L. Baker

Robert P. Yori

Assistant Professors

John E. Dennen

Richard E. McClellan

Associate Professors

Charles M. Bayler

Michael C. Blue

Degree Program

Bachelor of Science in Business Administration

A total of 63 semester hours is required for a major in business administration. This degree program offers specializations in accounting, business economics, finance, management information systems, management, and marketing.

Goals and Objectives

The curriculum in business administration develops specialized knowledge and skills applicable to entry into the business world and provides the opportunity to prepare for advanced studies in business. To achieve these aims, the curriculum is dedicated to those educational ideals that increase the student's understanding of business practices, develop specialized occupational skills, and enhance analytical and scholarly development. The business person's role and the place and purpose of the business firm in society are matters for constant study and evaluation. A concern for personal development in the attributes of intellectual discipline and ethical values is integrated into the general education and business courses.

Specialization in Accounting

A total of 24 semester hours is required to complete a specialization in accounting. Required courses include: Accounting 91.222, 91.321, 91.322, 91.323, 91.324, 91.342, 91.348, and Business Law 98.332.

Freshmen specializing in accounting encounter extensive work in university computer laboratories with microcomputer applications for their accounting courses. The College of Business does not specify any one brand of microcomputer but provides generic information on microcomputer requirements. Students who own hardware or who are considering the purchase of a microcomputer may contact the Office of the Dean, College of Business, Sutliff Hall for details on equipment requirements and information on computer purchase programs.

Required Courses

Required courses include: Economics 40.211, 40.212, 40.246, and 40.346 or Mathematics 53.118; 53.123; Accounting 91.220 or 91.221 for Accounting and Computer and Information Science majors, and 91.223; Computer and Information Systems 92.150; Management 93.344, 93.445, and 93.446; Finance 96.313; Marketing 97.310; and Business Law 98.331.

General Education Courses

English 20.101 and 20.201 are required as General Education courses for the six specializations in the business administration degree program.

Elective Courses

Select courses in business and economics to complete a minimum of 63 semester hours. Courses designated with a 91, 92, 93, 96, 97, 98 code are business courses, and those with a 40 code are economics courses. Additional courses permitted as electives include: Speech Communication 25.307; History 42.223 (a substitute for 42.224 and 40.423), 42.472; and General Business 90.101, 90.241, 90.431, and 90.432.

Note: 90.101 is not be allowed for credit as a business elective once a student has completed 6 semester hours in business administration courses. In selecting an elective, the student is reminded to have the proper prerequisites and to avoid elected courses below that level for which the student has already been prepared in that subject field.

Free Electives

Select free elective courses as needed to meet the 128 semester hours required for graduation.

ACCOUNTING (Code 91)

91.220 Financial Accounting

3 semester hours

Familiarizes students with a basic understanding of the generally accepted accounting principles and their applications. Includes sole proprietorship, partnership, and corporate accounting. General ledger and/or spreadsheet computerized accounting required. For non-accounting majors only.

Prerequisite: 92.150

91.221 Principles of Accounting I

3 semester hours

Presents the accounting cycle covering both service and merchandising activities of a sole proprietorship; special journals and special ledgers, accrued and deferred items and receivables and inventories. General ledger and/or spreadsheet computerized accounting is required.

Prerequisite: 92.150

91.222 Principles of Accounting II

3 semester hours

Develops further the accounting cycle; recording, summarizing, and interpreting financial data for partnerships and corporations. Includes cash flow, long-term liabilities, plant assets, and payroll accounting. A practice set and general ledger and/or spreadsheet computerized accounting are required.

Prerequisite: 91.220 or 91.221

91.223 Managerial Accounting

3 semester hours

Presents volume-cost-profit analysis, special decisions, operational and financial budgeting, control and performance evaluation, job-order and process costing, variance analysis, cost allocation, quantitative decision-making techniques, and analysis of financial statements. Students are expected to be proficient in the general use of Lotus 1-2-3 or Lotus 1-2-3 compatible electronic spreadsheets. Students are required to retrieve, modify, complete, save, and print electronic spreadsheets dealing with many of the topics listed above.

Prerequisites: 91.220 or 91.222 and 92.150

91.321 Intermediate Accounting I

3 semester hours

Presents the conceptual framework of accounting, accounting environment and information processing system, financial statements and the accounting standards regarding present and future value concepts, cash and receivables, temporary investments, inventories, and short-term liabilities. Requires the use of Lotus 1-2-3 to solve computer problems in each chapter.

Prerequisite: 91.222

91.322 Intermediate Accounting II

3 semester hours

Presents accounting standards for property, plant, and equipment, intangible assets, income recognition, long-term debts by borrower and lender, formation of corporations

and stockholders' equity, retained earnings, stock rights and options, and investments in securities and consolidated financial statements. Requires student to use an approved word processing software package to produce a research paper that analyzes one FASB, reviewing the related accounting literature.
Prerequisite: 91.321

91.323 Intermediate Accounting III
3 semester hours

Presents accounting standards regarding statement of cash flows, pension plans, leases, earnings per share, income taxes, accounting changes and error corrections, and financial reporting and changing prices. Use of Lotus 1-2-3 to solve computer problems in each chapter is required.
Prerequisite: 91.321

91.324 Federal Tax Accounting
3 semester hours

Introduces basic tax laws pertaining to preparation of individual federal tax returns and supporting schedules. Emphasis on tax law research utilizing federal tax services and contemporary professional literature.
Prerequisite: 91.321

91.342 Auditing Theory and Procedure
3 semester hours

Outlines principles, standards, procedures, and techniques applicable to internal and public auditing; consideration of the audit report and development of working papers for preparation of the report. Use of commercial computer packages to generate audit programs. Use of Lotus templates to work problems and use of word processing package to prepare a research paper.
Prerequisites: 91.322, Economics 40.346

91.348 Cost Accounting
3 semester hours

In-depth study of the three major production costs—raw material, factory overhead, and labor—for a job order cost system.
Prerequisite: 91.321

91.424 Advanced Federal Tax Accounting

3 semester hours

Assigns group and individual projects selected from the following areas of advanced tax accounting; partnerships and corporations, Pennsylvania corporate taxes, estates and trusts, reporting to governmental agencies. Includes lectures, discussion of issues, and practice in the solution of problems.
Prerequisite: 91.324

91.430 Advanced Accounting I
3 semester hours

Applies accounting principles to special problems in the consolidation and merger of business enterprises. Includes consideration of the basis for such combinations, consolidated statements on date of acquisition as well as at subsequent dates with special emphasis on design, construction, and utilization of integrated microcomputer-generated worksheets and financial statements.
Prerequisite: 91.322

91.431 Advanced Accounting II
3 semester hours

Focuses on accounting principles and practices of governments and non-profit institutions. Includes partnerships, estates, trusts, and bankruptcy accounting.
Prerequisite: 91.322 or consent of the instructor

91.432 Internship in Accounting
3 semester hours

Work experience in the accounting profession.
Prerequisite: 80 semester hours completed and adequate course preparation for the tasks to be performed.

91.448 Advanced Cost Accounting
3 semester hours

Continuation of 91.348, concentrating on process cost, standard cost, and budgets. Emphasis on methods used to analyze and interpret cost data.
Prerequisite: 91.348

91.449 CPA Problems

3 semester hours

Addresses the application of procedures for the solving of a cross section of complex

accounting problems and the discussion of theory and practice.

Prerequisites: 91.324, 91.342, and 91.348; Senior standing or consent of the instructor

Faculty Credentials

RICHARD L. BAKER

B.S., M.B.A., Bloomsburg State College; Ph.D., The Pennsylvania State University; C.P.A., C.M.A.

CHARLES M. BAYLER

B.S., Susquehanna University; M.S.B.A., Bucknell University; C.P.A.

MICHAEL C. BLUE

B.S., University of Wisconsin; M.S.B.A., Boston University; M.S., University of Wisconsin; Ph.D., University of Idaho, C.P.A.

JOHN E. DENNEN

B.S., Bloomsburg State College; M.S.B.A., Bucknell University

LESTER J. DIETTERICK

B.S., M.Ed., Bloomsburg State College; M.S.B.A., Bucknell University

E. BUREL GUM

B.S., Bloomsburg State College; M.S.B.A., Bucknell University; Ed.D., University of Pittsburgh

ROBERT HOGG

B.S., Temple University; M.S., Ph.D., The Pennsylvania State University; CPA

DENNIS B. K. HWANG

B.A., Chengchi University; M.A., Ph.D., University of Oklahoma; C.P.A., C.M.A.

RICHARD E. MCCLELLAN

B.S., M.Ed., Bloomsburg State College; M.S.B.A., Bucknell University; C.P.A.

JANICE C. SHIELDS

B.S.B.A., Clarion University; M.B.A., Clarion University; Ph.D., The Pennsylvania State University

ROBERT P. YORI

B.S., Bloomsburg State College; M.B.A., Lehigh University; Ph.D., The Pennsylvania State University; C.P.A.

Allied Health Preparatory Programs

Pre-Physical Therapy, Pre-Occupational Therapy, Pre-Cytotechnology, Pre-Pharmacy
School of Health Sciences, College of Professional Studies

Program Coordinator

James E. Cole, professor, Department of Biological and Allied Health Sciences

Advisers

Lynne C. Miller, associate professor, Department of Biological and Allied Health Sciences

Cynthia A. Surmacz, associate professor, Department of Biological and Allied Health Sciences

Margaret L. Till, assistant professor, Department of Biological and Allied Health Sciences

Goals and Objectives

The programs in allied health sciences encompass those health areas in which individuals support, aid and increase the efficiency and effectiveness of other health professionals by becoming a contributing member of a health care team. Programs in this area combine natural science and liberal arts education with clinical instruction. In general, students who complete any of the programs may enter their professions immediately. Others may select postgraduate education in health care. Central to most allied health programs, especially the clinical portion, is satisfactory completion of the clinical standards, often referred to as the *Essentials*. These standards establish requirements related to curriculum, personnel, financing, resources, and records.

Program Description

At Bloomsburg University the preparatory programs in physical therapy, occupational therapy, pharmacy, and cytotechnology usually span two to four years. The student then transfers to another institution for their clinical training and, upon completion of the program, earns either a degree or certificate. Bloomsburg University does not award specific degrees in these areas.

Students who select these preparatory programs follow a course of study that not only prepares them for entry into a variety of programs at other schools, but provides the option of pursuing a bachelor's degree in biology if they should decide to complete their education at Bloomsburg.

The university can not guarantee students placement in allied health programs at other institutions; however, the school boasts an exceptionally high rate of success in matching students with clinical programs and the variety of placement sites is considerable.

The opportunity to obtain a bachelor's degree in physical therapy, occupational therapy or cytotechnology is enhanced by an affiliation with Thomas Jefferson University's College of Allied Health Sciences. This agreement facilitates the transfer of students who have completed a minimum of two years preparatory work at Bloomsburg into upper-division baccalaureate programs at Thomas Jefferson University. This "2 plus 2" or "2 plus 3" arrangement couples an educational experience at a rural university with advanced clinical training at a major medical center in Philadelphia. Although the "2 plus 2" arrangement remains in place for most allied health programs, the arrangement for physical therapy has extended to "2 plus 3" and culminates in a master's degree from Thomas Jefferson University. It is important to note that many physical therapy programs are entered after the student receives a baccalaureate degree and the postbaccalaureate program leads to a master's degree.

Bloomsburg University is an active participant in the PACE (Plan A College Education) program sponsored by Thomas Jefferson University's College of Allied Health Sciences.

PACE is an advanced early admission program for academically talented secondary school seniors who wish to matriculate to Thomas Jefferson University after attending an accredited university for, at least, the first two years.

All colleges of pharmacy in the United States offering the Bachelor of Science in pharmacy require five years of college education for the completion of degree requirements. The five year curriculum is usually divided into two years of pre-pharmacy education and three years of professional pharmacy education. Thus it is a "2+3" program. Students who present credit for pre-pharmacy work done at Bloomsburg University, and for which they have received a grade of C or better, have been given credit for courses which correspond in length and content with those prescribed by the curricula in most colleges of pharmacy accredited by the American Council of Pharmaceutical Education.

Curriculum Requirements

The curricula for these preparatory programs vary. The student is encouraged to design a program that satisfies the requirements of the school to which the student intends to transfer. For example, the courses cited under "Professional Courses" are required by Thomas Jefferson University's physical and occupational therapy programs.

Professional Courses

The following courses are required: English 20.101, 20.201; Sociology 45.211 (not required for physical therapy); Anthropology 45.200 or 45.315 (not required for physical therapy); Psychology 48.101, 48.210 or 48.211, 48.335 (required for occupational therapy only); Biological and Allied Health Sciences 50.110, 50.120, 50.173, and 50.174; Mathematics 53.112 or 53.123 or 53.125.

*Chemistry and physics courses are required for the physical therapy program at Thomas Jefferson University. These include: Chemistry 52.111, 52.112, 52.113; and Physics 54.111 and 54.112. Students must select additional elective courses to complete 55 semester hours in occupational therapy or 65 semester hours in physical therapy.

Department of Anthropology

College of Arts and Sciences

Chairperson

Robert R. Reeder

Associate Professor

Robert R. Reeder

Professor

David J. Minderhout

Assistant Professors

Thomas F. Aleto

Dee Anne Wymer

Degree Program

Bachelor of Arts in Anthropology

A total of 36 semester hours is required for a major in anthropology.

Goals and Objectives

Anthropology, the study of humankind, attempts to establish useful information and generalizations about people, their behavior, and their cultural and biological origins, to arrive at the fullest possible understanding of human diversity. Anthropology promotes global cultural awareness through classroom studies of cultures everywhere. Anthropology, in common with other sciences, is concerned with the formulation and testing of hypotheses or tentative explanations of observed human phenomenon. Anthropology also has an important humanistic tradition.

At Bloomsburg University, anthropology is divided into three study areas: cultural anthropology which studies ways of life in societies across the world; physical anthropology which traces human origins and biological variability; and archaeology which seeks to explain human behavior by studying material remains from past cultures. The Department of Anthropology's principle mission is to provide a liberal education for all students. Graduating majors in this discipline have been very successful in gaining employment in business and government and in preparation for academic careers.

Recommended General Education Courses

The Anthropology Department lists suggested courses in other disciplines for majors in the department booklet *Anthropology at Bloomsburg*. With the exception of a needed proficiency in statistics, there are no specific General Education courses recommended for this major.

Required Courses

The following courses are required: 46.200, 46.210, 46.220, 46.470, and either 46.301, 46.466, 46.475 or 46.497; Social Welfare 45.260 or Psychology 48.160 or Mathematics 53.141.

Elective Courses

Choose two courses from each of the three subdisciplines: *Archaeology* – 46.300, 46.301, 46.310, 46.311, 46.340, 46.380; *Cultural Anthropology* – 46.320, 46.390, 46.440, 46.450, 46.480; *Physical Anthropology* – 46.260, 46.350, 46.405 or other courses as recommended by the adviser; students contemplating graduate school are advised to take Mathematics 53.171.

Minor in Anthropology

A minor constitutes 18 semester hours in this subject area. This includes three required courses, 46.200, 46.210, and 46.220, and three elective courses chosen from one of the three subdisciplines: *Archaeology* – 46.300, 46.301, 46.310, 46.340, 46.380; *Cultural Anthropology* – 46.300, 46.350, 46.390, 46.440, 46.480; and *Physical Anthropology* – 46.300 and 46.405 are

required; one course may be chosen from 46.350, Biological and Allied Health Sciences 50.102, 50.233, 50.454, and Earth Science and Geology 51.102.

Program Emphasis in Prehistoric Archaeology

The Anthropology Department features a special program emphasis in prehistoric archaeology. Students can enroll in multiple archaeology courses in order to gain a professional understanding of academic archaeology and archaeological method and theory. The department offers summer field schools where methods and techniques in archaeological analysis are refined. During summers and upon graduation, students have many opportunities to find temporary or permanent employment in the field of archaeology both in the United States and abroad. The program has provided fieldwork and study in North America, Meso America, and South America.

ANTHROPOLOGY (Code 46)

46.101 Introduction to Anthropology

3 semester hours

A beginning course for students with no background in anthropology. Provides an overview of peoples and cultures of the world today and of the past as well as the fossil evidence for human evolution. Special topics may include living primates, magic and religion, and kinship, marriage, and sex roles. Not for students who have taken 46.200, 46.210, 46.220 or who have 65 semester hours.

46.102 Anthropology and World Problems

3 semester hours

Students will explore the origins of global problems and evaluate the variety of cultural solutions to those problems. Cultural values and solutions of tribal peoples are investigated holistically and compared to those of industrialized nations in terms of their consequences and implications.

46.200 Principles of Cultural

Anthropology

3 semester hours

Examines a cross-cultural study of all human behaviors in contemporary cultures. Topics surveyed include socialization; language; sex, age, and kinship roles; religion and magic; marriage and the family; political and economic behavior; cultural change; and the arts. Anthropological methodology and the concept of culture also are stressed.

46.210 Prehistoric Archaeology

3 semester hours

Provides a worldwide examination of human prehistory from the origins of agriculture to the development of early writing. Focuses on regional differences and similarities in key evolutionary transitions including sedentary lifeways, urban origins, and the rise of states.

46.220 Human Origins

3 semester hours

Studies the emergence and development of humans, the biological basis of human culture and society, and the origin of the social units of fossil humans.

46.260 Men and Women:

An Anthropological Perspective

3 semester hours

A cross-cultural and evolutionary perspective on sex role behavior in past and contemporary cultures. Sex roles are examined in nonhuman primates as well as in humans. Sex roles in hunting and gathering, horticultural, pastoralist, peasant, and other preindustrial societies are described as well as sex roles in modern industrial societies. Genetic and environmental theories of sex role behavior are discussed and evaluated. Prerequisite: 3 semester hours of anthropology

46.300 Archaeological Method and Theory

3 semester hours

Describes the nature of archaeological remains and explains how archaeology can be

used to answer key questions concerning long-term change in human economic, political, and social behavior. Illustrative examples are drawn from around the world; however, past inhabitants of northeastern United States are given the most intensive examination.

46.301 Field Archaeology

3-6 semester hours

Provides field investigation of various prehistoric cultures in northeastern United States. Students learn excavation and recording techniques, visit important sites during field trips, and become part of a unique community that studies our past.

46.310 Aztecs and Mayans

3 semester hours

Surveys the prehistoric cultures of Mexico and Central America. Emphasis on the development of Aztec and Mayan civilizations.

46.311 Archaeology of Northeastern North America

3 semester hours

Surveys the prehistoric cultures of the area from arrival of the first inhabitants through early historic times. Provides a laboratory for the study of broader issues of socio-cultural processes.

46.320 Contemporary World Cultures

3 semester hours

Presents a comparative analysis of selected non-European societies in contrasting cultural and natural areas. Indicates stresses on the natural and social environment; national character; religion and world view; and literary, artistic, and musical expression.

46.340 North American Indians

3 semester hours

Surveys the native cultures of North America in prehistoric and early historic periods.

46.350 Medical Anthropology

3 semester hours

Studies of cross-cultural concepts of health, illness, and curing as well as health care deliv-

ery in industrialized cultures. Includes the topics of divination and diagnosis, sorcery and witchcraft in healing, public health and preventive medicine, alcoholism and drug use, and the medical knowledge of tribal and peasant societies.

46.380 Culture Change and Culture Contact

3 semester hours

Examines the modern world with emphasis on emerging new patterns of Western and international culture. Studies the impact of mass society and technology on the environment and humans, and prospects for the future.

Prerequisite: 46.200 or 46.210

46.390 Socialization of the Child

3 semester hours

Life experience and adjustment of the individual through infancy, middle childhood, and youth. Reviews contrasting methods of introducing children to adult economic, social, and religious activities.

Prerequisite: 46.200

46.405 Primates

3 semester hours

Studies the various phenomena affecting primate behavior; ecology, social life, and socio-cultural adaption, with emphasis on the development of socio-biological traits relating to human origins.

Prerequisite: 9 semester hours of anthropology or 46.220 or any biology course

46.410 Primitive Arts

3 semester hours

Studies the graphic arts, music, dance, performance, and literature of prehistoric and modern cultures that lie outside the Great Traditions of art from an anthropological perspective.

46.440 Language and Culture

3 semester hours

Studies the place of oral and non-oral language in human evolution and contemporary cultures. Discusses dialectal variation, dis-

course analysis, multilingualism, language and cognition, and the role of language in education.

46.450 Peoples and Cultures of South America

3 semester hours

Presents a survey introduction to the aboriginal, non-literature cultures of South America including ecological background, archaeology, and cultural patterns.

46.466 Independent Study in Anthropology

3 semester hours

Independent study by a student with faculty guidance of a particular research problem in anthropology. The research problem either extends current course content or deals with an area not covered in the current course offerings in anthropology. A problem is chosen by the faculty member and the student working together. See the section on *Independent Study*.

46.470 History of Anthropological Thought and Theory

3 semester hours

Surveys the leading methods and theories of anthropological and ethnological interpretation with special emphasis on the concept of culture and its practical application to modern problems.

46.475 Field Methods in Cultural Anthropology

3 semester hours

Provides class discussion and field experience in participatory observation. Students will be given experience in informant interviewing, census taking, kinship charting, mapping, studying complex organizations, and writing ethnographic field reports.

46.480 Religion and Magic

3 semester hours

A comparative analysis of the origins, elements, forms, and symbolism of religious beliefs and behavior; the role of religion in society with particular reference to nonliterate societies. Anthropological theories and methods of religion, both historical and contemporary.

46.495 Special Topics in Anthropology

3 semester hours

Provides for instruction and student research within selected areas of interest not available in other courses.

Prerequisite: 18 semester hours of anthropology or consent of the instructor

46.497 Internship in Anthropology

3-15 semester hours

An on-site training and learning experience in anthropology that give the student opportunities to apply theoretical and descriptive knowledge of archaeology, cultural anthropology, and physical anthropology in private and government institutional settings.

Faculty Credentials

THOMAS F. ALETO

B.A., University of Notre Dame; M.A., Ph.D., University of Illinois, Urbana-Champaign

DAVID J. MINDERHOUT

B.A., M.A., Michigan State University; Ph.D., Georgetown University

ROBERT R. REEDER

B.A., M.S., The Pennsylvania State University; M.A., University of Colorado

DEE ANNE WYMER

B.A., M.A., Ph.D., The Ohio State University

Department of Art

College of Arts and Sciences

Chairperson

Kenneth T. Wilson Jr.

Professor

Stewart L. Nagel

Associate Professors

Karl A. Beamer

Robert B. Koslosky

Barbara J. Strohman

Kenneth T. Wilson Jr.

Assistant Professors

Carol Burns

Gary F. Clark

Christine M. Sperling

Charles Thomas Walters

Vera Viditz-Ward

Adjunct Faculty

Chester P. Snyder

Degree Program

Bachelor of Arts in Art

A minimum of 39 semester hours is required for a major in either art history or art studio.

Goals and Objectives

The study of art requires both an inner desire and a firm technical basis to support the artist's growth throughout life. The Art Department is dedicated to providing an ideal environment for the nurturing of this development within the confines of a liberal arts education. Art professors are committed to excellence in teaching as well as actively involved in their own field of expertise.

Since art is a reflection of society, a study of the history of art is needed to place art of the past and present in the context of our lives. This program addresses the commonality of visual expression among diverse cultures and nationalities.

The studio is used as a means of giving the student a chance to develop skills through mediums of visual expression that will lead to statements of personal worth. Competency is expected within the electronic media as well as the traditional means for the student to fully explore their desires of expression. Through explorations in the various arts, the student should understand the richness of the working process as a framework for the end product. In addition to traditional academic study, interaction with the faculty and use of facilities on campus are important to the student's development.

This program prepares students to complete the requirements and concentration necessary for their selected career.

Required Courses for Art History

Required courses include 24 semester hours in Art History (Code 31); 6 semester hours in Art Studio (Code 32) or 32.480, 32.490 and 32.495; 3 semester hours from either Art Education (Code 30), Art History or Art Studio; and 6 semester hours in a foreign language, namely, French, German, Italian, or a language approved by the chairperson.

Required Courses for Art Studio

Required courses include: 32.151 and 32.152 Two-Dimensional and Three-Dimensional Design, 32.211 and 32.212 Drawing I and II, 32.231 Painting I, 32.241 Sculpture I; two Art History (Code 31) courses; 9 semester hours in either ceramics, fabric design, graphics, painting, photography, sculpture, or weaving or 6 semester hours in drawing; and 6 to 9 elective semester hours in art.

Minor in Art History

A minor in art history requires 15 semester hours in art history courses plus 30.101 Introduction to Art for a total of 18 semester hours. An art studio course is also recommended.

Minor in Art Studio

The minor in art studio requires 15 semester hours in art studio courses, including three levels of a studio specialization and 30.101 Introduction to Art for a total of 18 semester hours. In addition, an art history course is recommended.

GENERAL - ART EDUCATION
(Code 30)

30.101 Introduction to Art

3 semester hours

Reviews great works of art, past and present, with an emphasis on the structure of art as determined by civilization, communication, and expression.

30.205 Children's Art

3 semester hours

Provides encounters with the art of children and ways to promote attitudes of discovery and invention, with emphasis on growth of expression.

30.303 Crafts in Special Education

3 semester hours

Presents a workshop course designed to involve students in a variety of craft experiences for different types of special learners.

30.306 Visual Arts for the Exceptional Child

3 semester hours

Stresses the importance of art activity, theory, and practice as a means of enriching and stimulating special children's awareness of themselves and their work. Emphasizes those positive aspects for creative activity that the handicapped child possesses. Recommended for special education and psychology majors with Junior standing.

30.350 Art Education in the Elementary School

3 semester hours

Reviews theories and techniques basic to the use of art in the elementary school.

30.385 Philosophy and Psychology of Art
3 semester hours

Studies major philosophical points of view governing an understanding and criticism of the arts, past and present, together with 20th century readings in the psychology of art and content and biology of artistic form.

ART HISTORY
(Code 31)

31.215 American Art History

3 semester hours

Studies the history of visual arts in America.

31.225 History of Architecture

3 semester hours

Presents a study-survey of great architectural works of the past and the present including examples of both East and West.

31.235 Ancient and Medieval Art

3 semester hours

Studies the history of the visual arts on the European continent from the prehistoric era up to and including the Late Gothic.

31.236 Art From the Renaissance Through Impressionism

3 semester hours

Studies the history of the visual arts beginning with the Italian Renaissance up to and including French painting of the 19th century.

31.345 Art History of the Near East

3 semester hours

Studies the history of the visual arts of the Islamic and the Mesopotamian worlds.

31.346 Art History of the Far East

3 semester hours

Studies the history of the visual arts of India, China, Japan, and Southeast Asia.

31.355 History of Modern Art

3 semester hours

Examines movement in art from mid-19th century France to the contemporary United States.

31.375 Independent Study in Art History

3 semester hours

Entails research and scholarship on a selected, approved topic in art history under the supervision of a faculty member, resulting in a publishable paper. See the section on Independent Study.

31.395 Visual Aesthetics

3 semester hours

A seminar emphasizing artistic concern with environmental relationships and theories of aesthetics and art criticism.

31.415 Primitive Arts

3 semester hours

Studies the graphic arts, music, dance performance and literature of prehistoric and modern cultures that lies outside the Great Traditions of art from an anthropological perspective.

**ART STUDIO
(Code 32)**

Level I courses are open to all students.

32.111 Drawing I

3 semester hours

Examines various approaches toward drawing and explores the use of a variety of drawing materials. Studio practice and class critiques address each person's power of observation, craftsmanship, self-expression, and growth.

32.151 Three-Dimensional Design

3 semester hours

An introduction to the basic elements and

principles of design such as the organization of visual elements and color, with emphasis on three-dimensional design.

32.152 Two-Dimensional Design

3 semester hours

An introduction to the basic elements and principles of design such as the organization of visual elements and color, with an emphasis on two-dimensional design.

32.195 Computer Art Graphics

3 semester hours

An introductory course that explores the potential of the computer as a tool to create fine art. Images based on current computer technologies are stressed. Use of software and computers to create new kinds of images are a primary concern. An understanding of new technologies can be an important tool for an artist to become sensitive to his or her culture. Also, by using technologies with a fine arts approach, student make significant discoveries for development into their own creative work.

32.201 Ceramics I

3 semester hours

Introduces the processes of making and firing ceramic objects.

32.202 Ceramics II

3 semester hours

Affords students the opportunity to become more involved by selecting their own methods of work.

Prerequisite: 32.201

32.212 Drawing II

3 semester hours

Continues exploration of attitudes and materials stressing composition and form. Includes work from the human skeleton and linear perspective.

Prerequisite: 32.111

32.221 Fabric Design I

Fall

3 semester hours

Introduction to a variety of methods, ap-

proaches, tools, materials, and visual concepts in designing with fibers.

32.222 Fabric Design II

Fall 3 semester hours

A continuation of 32.221 with limited areas of concentration selected by each student. Professional methods, approaches, and attitudes discussed.

Prerequisite: 32.221

32.231 Painting I

3 semester hours

Introduction to the methods, materials, and concepts of painting. Provides exploration of and increased sensitivity to one's environment through color.

32.232 Painting II

3 semester hours

Devotes attention to the development of the technical skill inherent in the formation of images. Includes the study of the landscape as a concept in painting.

Prerequisite: 32.231

32.241 Sculpture I

3 semester hours

Explores three-dimensional artistic expression with an emphasis on introducing a student to basic sculptural materials.

32.242 Sculpture II

3 semester hours

Promotes continued development in the use of materials and processes; strives for unique individual expression.

Prerequisite: 32.241

32.251 Weaving I

Spring 3 semester hours

Provides an introduction to weaving including foot-powered looms and off-loom techniques. Weaves, fibers, spinning, and looms will be part of the studio experience.

Prerequisite: 32.152 or consent of instructor

32.252 Weaving II

3 semester hours

The loom-controlled sampler is required plus

continued experience in weaving techniques and artistic decision dealing with fibers.

Prerequisite: 32.251

32.261 Graphics I: Printmaking

3 semester hours

Introduction to the methods, materials, and concepts of graphic art through exploration of basic printmaking techniques.

32.262 Graphics II: Printmaking

3 semester hours

Emphasis on color printmaking and color registration procedures. Provides a concentration in serigraphy and intaglio techniques.

Prerequisite: 32.261

32.273 Design III

3 semester hours

Advanced design problems are undertaken stressing individualized productions, involvement, and individual expression through design.

Prerequisites: 32.151, 32.152

32.275 Crafts I

3 semester hours

Introduction to a varied array of crafts, methods, tools, materials, techniques, and artistic concepts.

32.276 Crafts II

3 semester hours

Provides a continued exploration of selected in-depth crafts processes and concepts on a more professional basis.

Prerequisite: 32.275

32.281 Photography I

3 semester hours

Introduction to black and white photography as a medium of visual expression. Technical emphasis on fundamental camera and exposure controls and introduction to darkroom printing techniques. Photographic composition, style, and theory discussed. Students must have a 35mm camera and provide their own film and paper.

32.282 Photography II

3 semester hours

Continues exploration of black and white fine art photography. Emphasis on refining exposure and printing skills. Introduction to zone system metering, medium format photography, and alternative photographic processes. Student must have a camera and provide their own film and paper.

Prerequisite: 32.281

32.303 Ceramics III

3 semester hours

Provides the student an opportunity to specialize through the pursuit of making an art object.

Prerequisite: 32.202

32.304 Ceramics IV

3 semester hours

Requires students to be responsible for making, firing, and showing their own wares.

Prerequisite: 32.303

32.313 Drawing III

3 semester hours

Entails studio practice, outside assignments, and critiques in pursuit of self-discovery and personal expression. Each student completes an individual project.

Prerequisite: 32.212

32.314 Drawing IV

3 semester hours

Continues studio practice, outside assignments, and critiques stress individuality and deep involvement of personal expression. An individual project is pursued by each student.

Prerequisite: 32.313

32.323 Fabric Design III

Fall 3 semester hours

Provides a continuation of Fabric Design II with concentration in one area selected by the student. Focus is on refining one's craft, visual perception, and professional attitude.

Prerequisite: 32.222

32.324 Fabric Design IV

Fall 3 semester hours

Presents a continuation of Fabric Design III with each student functioning in one area in a highly independent and professional manner.

Prerequisite: 32.323

32.333 Painting III

3 semester hours

Provides development toward maturity of study and statement. Includes study of the figure as a concept in painting.

Prerequisite: 32.232

32.334 Painting IV

3 semester hours

Provides advanced work planned for individual needs. Paintings are structured from experiences based on previous development.

Prerequisite: 32.333

32.343 Sculpture III

3 semester hours

Focuses on the expansion of expression and its relationship to sculptural processes.

Prerequisite: 32.242

32.344 Sculpture IV

3 semester hours

Enables advanced, independent work toward a maturing, personal expression in sculpture.

Prerequisite: 32.343

32.353 Weaving III

Spring 3 semester hours

Provides continued experience in weaving techniques with emphasis on in-depth production, two-dimensional or three-dimensional.

Prerequisite: 32.252

32.354 Weaving IV

Spring 3 semester hours

Develops an individualistic approach to weaving with emphasis on in-depth production.

Prerequisite: 32.353

32.363 Graphics III: Printmaking

3 semester hours

Exploration of mixed media printmaking methods and concepts. Emphasizes photographic and lithographic techniques.

Prerequisite: 32.262

32.364 Graphics IV: Printmaking

3 semester hours

Exploration of experimental printmaking. Emphasis on personal expression.

Prerequisite: 32.363

32.380 Jewelry Making

3 semester hours

Studies jewelry forms, past and present, from the standpoint of both utility and design. Problems in wood and metals, ceramics, glass, and plastics, exploring contemporary jewelry forms and processes.

32.383 Photography III

3 semester hours

Students develop personal photographic projects to produce during the semester. Emphasizes individual exploration of black and white photographic materials and processes. Students must provide a 35mm camera, film, and paper.

Prerequisite: 32.282

32.384 Photography IV

3 semester hours

Students produce personal photographic projects resulting in final portfolios and an exhibition of fine art photographic prints. Students must provide a 35mm camera, film, and paper.

Prerequisite: 32.383

32.395 Art and Culture of France

3 semester hours

Provides a study-tour of France with specific attention to French art seen in relation to its social and cultural environment. Features a new theme and visits to related areas each time course is offered. Past themes include "The Age of Francis I," "The Art of Provence," and "The Normandy Influence."

32.475 Independent Study in Studio Arts I

1-3 semester hours

Allows individualized independent study in a selected studio area. Amount of course credit awarded is determined by the instructor on the basis of the substance and depth of the project to be undertaken. See the section on *Independent Study*.

Prerequisite: Satisfactory completion of four levels of a studio area or its equivalent

32.476 Independent Study in Studio Arts II

1-3 semester hours

Extension of 32.475 Independent Study in Studio Arts I.

32.480 Internship in Art

3-6 semester hours

Provides upper-level art majors with an opportunity to acquire meaningful experiences in practical work situations outside the regular courses prescribed by art curriculum (e.g., museum curator, designers, merchandising operations, artists).

32.490 Art Gallery

3 semester hours

Provides involvement with the collection, preservation, and exhibition of art work. Experience concludes with planning and hanging an exhibition in Haas Gallery of Art. Visits to museums and art galleries familiarize students with the varied nature and philosophy of exhibition today.

32.495 Independent Study in Art Media

3 semester hours

Stresses individual projects in the plastic arts not covered by other studio course offerings and in-depth explorations, innovative uses, and applications of selected art media. See catalog section on *Independent Study*.

Faculty Credentials

KARL A. BEAMER

B.S., Kutztown State College; M.F.A., The Pennsylvania State University

CAROL BURNS

B.S., The Pennsylvania State University; M.A., University of Northern Colorado; M.F.A., Cranbrook Academy of Art

GARY F. CLARK

B.F.A., Maryland Institute College of Art; M.A., West Virginia University

ROBERT B. KOSLOSKY

B.S., M.Ed., Kutztown State College; Ph.D., The Pennsylvania State University

STEWART L. NAGEL

B.F.A., Cooper Union; M.F.A., Pratt Institute

CHESTER P. SNYDER

B.S., University of Scranton; S.T.B., University of St. Thomas in Urbe; M.A., Bloomsburg University

CHRISTINE M. SPERLING

B.A., M.A., University of Oregon; Ph.D., Brown University

BARBARA J. STROHMAN

B.S., University of Maryland; M.F.A., Maryland Institute College of Art

CHARLES THOMAS WALTERS

B.M., DePauw University; M.F.A., University of Wisconsin; Ph.D., University of Michigan

VERA VIDITZ-WARD

B.F.A., Hartford Art School/University of Hartford; M.F.A., Indiana University

KENNETH T. WILSON JR.

B.S., Edinboro State College; M.S., The Pennsylvania State University

Department of Biological and Allied Health Sciences

College of Arts and Sciences

Chairperson
Louis V. Mingrone

Professors
James E. Cole
Judith P. Downing
Phillip A. Farber
Michael Herbert
Frederick C. Hill
Louis V. Mingrone

Associate Professors
George J. Gellos
Thomas S. Klinger

Mark S. Melnychuk
Lynne C. Miller
James E. Parsons
Robert G. Sagar
Cynthia A. Surmacz

Assistant Professors
Joseph P. Ardizzi
George Chamuris,
assistant chairperson
John R. Fletcher
Margaret L. Till

Degree Programs

Bachelor of Science in Biology, Bachelor of Arts in Biology

A total of 33 semester hours is required for a major in biology.

Goals and Objectives

The Bachelor of Science program in biology provides a rigorous background in biology, chemistry, physics, and mathematics. The program meets the needs of students who plan to enter graduate studies, the medical field, or professions that require in-depth preparation in the natural sciences.

In contrast, the Bachelor of Arts program is more flexible and allows more freedom in choosing courses. It enables students to gain a broad-based background in the natural sciences. This flexibility permits students to tailor a program to their specific interests, backgrounds, and career objectives.

Students pursuing either degree program may elect an option in microbiology. The required courses in microbiology specified under the option are identical for both programs of study.

The option in marine biology is also open to majors in both bachelor's programs. It provides students with the opportunity to specialize in marine biology while obtaining a general background in the biological sciences. At least four courses, totaling 12 semester hours, must be taken at the Marine Science Center in Virginia.

Graduates in biology have entered medical, veterinary, dental, graduate, and paramedical schools. They are employed in federal, state, and local agencies as biologists, ecologists, and naturalists. They have found employment in laboratories operated by universities, pharmaceutical companies, private industry, and government agencies. Others have gone on to earn advanced degrees in the biological or health sciences.

Recommended General Education Courses

Non-biology majors may select any biology courses designated with the 50 or 55 code in General Education Group C, Natural Sciences and Mathematics, providing they have met the prerequisites. Exceptions include those courses specifically reserved for biology/allied health students and the following: 50.205, 50.230, 50.254, and 50.281-89. Suggested courses include: 50.101, 50.102, 50.110, 50.111, 50.120, 50.231, and 50.240.

Required Courses for Bachelor of Science in Biology

Biology 50.110, 50.120, 50.271, 50.332, 50.351, 50.380; 50.371 or 50.372 or 50.475 and additional biology courses for a minimum of 33 semester hours. Chemistry 52.111 and 52.112, or 52.118; 52.113, 52.231, 52.232, and 52.341. Physics 54.111 and 54.112, or 54.211 and 54.212; Mathematics (6 semester hours) 53.141 or Psychology 48.160 and 53.123; or 53.141 or Psychology 48.160 and 53.125; or 53.125 and 53.126. Languages and Cultures at least one semester of any foreign language at the 102 level or above.

In this degree program, students may choose an option in microbiology or marine biology.

Required Courses for Bachelor of Arts in Biology

Biology 50.110, 50.120, 50.271, 50.332, 50.351, and 50.380; 50.371 or 50.372 or 50.475; and additional biology courses for a minimum of 33 semester hours. Chemistry 52.111 and 52.112, or 52.118; and 52.113; and 52.230 and 52.341, or 52.231 and 52.232. Mathematics (9 semester hours) 53.123, 53.141 or Psychology 48.160, and Computer Science 56.110. Languages and Cultures at least one semester of a foreign language at the 102 level or above.

In this degree program, students may choose an option in microbiology or marine biology.

Microbiology Option

The option provides a biology major the opportunity to specialize in microbiology while obtaining a general background in biology. The option is also open to medical technology majors; see the section on *Medical Technology*. The requirements for this option are the same for the Bachelor of Science program as they are for the Bachelor of Arts program.

Biology 50.110, 50.120, 50.271, 50.332, 50.351, 50.380, 50.371 or 50.372 or 50.475.

Microbiology 50.242, 50.243, 50.342, and 50.343.

Electives (9 semester hours) Choose from: 50.350, 50.432, 50.442, 50.450, 50.455, or 50.470.

Marine Biology Option

This option provides the biology major with the opportunity to specialize in marine biology while obtaining a general background in biological sciences. The marine biology option is made possible by the department's membership in the Marine Science Consortium, which maintains the Marine Science Center. See Code 55 for course descriptions.

Minor in Biology

The minor in biology consists of 20 semester hours. Required courses are: 50.110, 50.120, 50.242, 50.271, and at least two courses at the 300-level or above that are chosen from departmental offerings acceptable to the major. These may not include: 50.380 Biology Seminar, 50.390/391 Independent Study in Biology I and II, 50.490 Internship in Biology, or Cooperative Education.

Allied Health

Curricula for medical technology, radiological technology, dental hygiene, pre-physical therapy, pre-occupational therapy, pre-cytotechnology, and health services associate are detailed in the sections on *Medical Technology*, *Radiological Technology*, *Dental Hygiene*, *Allied Health*, and *Health Services*.

Cooperative Education/Internship/Independent Study

The department provides opportunities for students to engage in cooperative education, internships, and independent study. Only 6 semester hours can be applied as biology electives from the following courses: 50.279, 50.390, 50.391, 50.479, 50.490, and 50.493.

BIOLOGICAL AND ALLIED HEALTH SCIENCES (Code 50)

**THE FIRST GROUP OF COURSES
DESCRIBED UNDER CODE 50
IS FOR BIOLOGY MAJORS, THE
SECOND GROUP OF COURSES IS
FOR NON-BIOLOGY MAJORS.**

50.110 Biology of Animals

4 semester hours

Introduces fundamental principles of zoology as applied to representative groups of animals. Laboratory work emphasizes comparative development, anatomy, physiology, and behavior of representative animals. Three hours lecture/3 hours laboratory per week.

50.120 Biology of Plants

4 semester hours

Introduces fundamental principles of taxonomy, anatomy, morphology, physiology, and genetics as applied to the plant kingdom. Three hours of lecture/3 hours laboratory per week.

50.211 Invertebrate Zoology

3 semester hours

Studies the principal phyla of invertebrate animals in relation to their anatomy, classification, and behaviors in the ecosystems in which they participate. Field trip component at Marine Science Consortium, Wallops Island, Va., includes additional student costs. Three hours lecture/2 hours laboratory per week.

Prerequisite: 50.110.

50.212 Vertebrate Zoology

Fall

3 semester hours

Studies the biology of vertebrate animals, emphasizing morphology, physiology, natural history, and behavior. Reviews evolutionary and ecological aspects of each class. Includes laboratory work with living and preserved specimens to familiarize students with representative individuals of the major classes of this group. Field trip component at

the Marine Science Consortium, Wallops Island, Va., includes additional student costs. Two hours of lecture/3 hours of laboratory per week.

Prerequisite: 50.110

50.221 Comparative Biology of Nonvascular Plants

3 semester hours

Provides a phylogenetic study of major non-vascular plants with an emphasis on development, structure, reproduction, and selected ecological aspects. Two hours lecture/3 hours laboratory per week.

Prerequisite: 50.120

50.222 Comparative Biology of Vascular Plants

3 semester hours

Provides a phylogenetic study of major vascular plants with emphasis on their development, structure, reproduction, and selected paleobotanical aspects. Two hours of lecture/3 hours of laboratory per week.

Prerequisite: 50.120

50.233 Human Genetics

3 semester hours

Explores the principles of human genetics and their application to problems in anthropology, biology, medicine, psychology, sociology, and special education. Three hours of lecture/discussion per week.

Prerequisite: 50.101, 50.110, or 50.120 or consent of the instructor

50.242 General Microbiology

3 semester hours

Introduces the fundamental principles of nomenclature, classification, microscopy, cytology and anatomy, cultivation, growth, metabolism, and genetics of the microbial world. Microbial interrelationships and control are integrated into a systematic approach to classical microbiology as it relates to humans and the environment. Three hours of lecture/discussion per week.

50.243 General Microbiology Laboratory
2 semester hours

Provides a laboratory experience to fortify student's didactic learning in general microbiology (50.242). Emphasis on microscopy, cytology, and anatomy of bacteria, culture methodology, growth, reproduction, enumeration, physiology, control by both physical and chemical agents, genetics, microbial interrelationships, quality control, and laboratory safety. Four hours per week.

Prerequisite: 50.242 or taken concurrently

50.252 Field Zoology
Summer/Odd-numbered Years

3 semester hours

Studies common vertebrates (excluding birds) of North America with emphasis on observation, collection, and recognition of local fauna. Two hours of lecture/3 hours of laboratory per week.

Prerequisite: 50.110 or consent of instructor

50.253 Freshwater Biology

Summer 3 semester hours

Emphasizes the chemical, physical, and biological aspects of freshwater environments. Two hours of lecture/3 hours of laboratory per week.

Prerequisites: 50.110 and 50.120 or consent of the instructor

50.263 Field Botany

Summer/Even-numbered Years

3 semester hours

Addresses identification and classification of seed plants represented in local flora. Two hours of lecture/3 hours laboratory per week.

Prerequisite: 50.120 or consent of instructor

50.271 Cell Biology

3 semester hours

Examines the structure and function of the cell and its organelles. Emphasis on general principles and processes by which all cells function. Three hours of lecture/3 hours of laboratory per week.

Prerequisites: 50.110 or 50.120, 52.111 or 52.118 and 52.113.

50.279 Cooperative Education in Biology and Allied Health Sciences

3-6 semester hours

A work-study program open to students majoring in the biological sciences with a minimum of 32 semester hours earned. Differs from internship 50.490 in that Cooperative Education must be paid and is a two-opportunity experience, with the first experience generally undertaken soon after 32 credits are earned. The two experiences may total from 9 to 12 hours since one of the two must be full-time (equivalent to 6 semester hours) and the second may be part time (3 semester hours) or full time. A cumulative total of 15 semester hours, including credit in 50.490, may be taken with a maximum of 6 semester hours counted toward requirements for the major. Prerequisite: Open only to students majoring in the biological sciences who have earned at least 32 semester hours

50.290 Writing in Biology

3 semester hours

Alternative to English 20.200 or 20.201 for biology majors. Provides experience in types of communication useful in a natural science with a basis in experimentally acquired information. Emphasizes types of written communication; includes oral presentations.

Prerequisites: English 20.101 or 20.104 and completion of two biology courses (50.110, 50.120 or 50.242). Word processing skills highly recommended.

50.331 Embryology

Spring/Even-numbered Years

3 semester hours

Reviews the patterns, processes, and principles of animal development. Laboratory studies emphasize descriptive embryology of a number of representative vertebrates with emphasis on amphibian, avian, and mammalian development. Field trip component at Marine Science Consortium, Wallops Island, Va., includes additional student costs. Two hours of lecture/3 hours of laboratory per week.

Prerequisite: 50.110 or consent of instructor

50.332 Genetics

3 semester hours

Addresses mechanisms of heredity in animals and plants; Mendelian inheritance, probability, linkage, crossing over, chromosomal modifications, nucleic acids, and gene action. Three hours of lecture/2 hours of laboratory per week. Laboratory hours may vary. Prerequisite: 50.271

50.342 Medical Bacteriology

4 semester hours

Provides a study of bacteria capable of causing disease in humans. Emphasizes the laboratory aspects of bacterial disease but includes pathogenicity, identification, diagnosis, treatment, and prevention. Three hours lecture/3 hours laboratory per week. Prerequisites: 50.242, 50.243, 50.271

50.343 Immunology

3 semester hours

Introduction to components and functions of human immune system; application of immunology to infectious disease, blood transfusion, organ transplantation, and cancer; consideration of conditions involving the immune system such as immunodeficiencies (AIDS), allergies, and autoimmune diseases. Prerequisites: 50.271; background in genetics, organic/biochemistry, and/or infectious diseases recommended

50.350 Plant Pathology

3 semester hours

Examines the nature of vascular plant diseases, the biology of plant pathogens, and the impact of diseases on human affairs. Lecture stresses principles of plant pathology: disease and pathogen classification, modes of pathogenesis, host response to disease, and disease control. Laboratory stresses identification of plant pathogens and disease symptoms, histology of diseased tissues, and research techniques. Three hours of lecture/ 2 hours of laboratory per week. Prerequisites: 50.120, 50.271; 50.242 recommended; or consent of the instructor

50.351 General Ecology

3 semester hours

Introduces principles and concepts pertaining to energy flow, limiting factors, habitat studies, succession patterns, and population studies at the species, interspecies, and community level. Field trip component at the Marine Science Consortium, Wallops Island, Va., may incur additional student costs for food and lodging. Two hours lecture/3 hours laboratory per week.

Prerequisite: 50.110 or 50.120 or consent of the instructor

50.361 Comparative Vertebrate Anatomy *Spring/Odd-numbered Years*

3 semester hours

Presents a comparative study of the chordates emphasizing the vertebrate classes. Particular attention is given to structure, morphogenesis, functional adaptations, and evolutionary trends. Laboratory emphasis is placed on the lamprey, shark, and cat. Field trip component at Marine Science Consortium, Wallops Island, Va., includes additional student costs. Two hours of lecture/3 hours of laboratory per week.

Prerequisite: 50.110 or consent of instructor

50.364 Vertebrate Histology

3 semester hours

Studies the structure and function of vertebrate cells and tissues from various body systems. Laboratory studies include the use of prepared microscope slides and color photomicrographs. Two hours lecture/3 hours laboratory per week.

Prerequisite: 50.271 or consent of instructor

50.365 Histological and Histochemical Techniques

3 semester hours

Provides theory and practice in the use of histological and histochemical techniques in a laboratory format. Fixation, preparation embedding, sectioning, and staining of various animal tissues. One hour lecture/4 hours laboratory per week.

Prerequisites: 50.364 or Chemistry 52.211 or

52.231 recommended or consent of the instructor

50.371 Principles of Mammalian Physiology

4 semester hours

Principles of cell physiology that are basic to the function of the following mammalian tissue and systems are studied; blood, metabolic, neuromuscular, cardiovascular, and urinary. Neural and chemical processes of the aforementioned are emphasized. Three hours of lecture/3 hours of laboratory per week.

Prerequisites: 50.271 and Chemistry 52.111, 52.112, and 52.113, or consent of the instructor. Background in organic chemistry and algebra, and at least Sophomore standing recommended.

50.372 Plant Physiology

Spring 3 semester hours

An introduction to plant function including discussions of water relations, carbohydrate metabolism and translocation, photosynthesis, mineral nutrition, plant growth hormones, and growth and development. Three hours lecture per week.

Prerequisites: 50.120 and 50.271; Chemistry 52.211 or 52.231 or consent of instructor

50.380 Biology Seminar

1 semester hour

Emphasizes preparation and presentation of biological topics in both oral and written formats.

Prerequisite: Junior standing or minimum of 64 semester hours completed

50.390 Independent Study in Biology I

1-3 semester hours

Acquaints students with techniques of scientific research, data collection, and analysis by engaging in a program of research with the aid of a faculty member. Research culminates in a scholarly paper written by the student that presents findings of the laboratory or field investigation in a form suitable for publication.

Prerequisite: Junior standing

50.391 Independent Study in Biology II

1-3 semester hours

Acquaints students with techniques of scientific research, data collection, and analysis by engaging in a program of scientific research with the aid of a faculty member. See section on *Independent Study*.

Prerequisites: 50.390 and Junior standing

50.411 Radiation Biology

3 semester hours

Studies the effects of radiation on living organisms; nuclear structure; fundamental properties of radiation; physical, chemical, and genetic effect on plants and animals from cells to whole organisms; the application of radiochemicals in biological studies.

Prerequisites: 52.112, 52.113, and Physics 54.112 or 54.212 or the consent of instructor

50.430 Evolution

3 semester hours

Studies the major concerns of the theory of evolution and contributions toward their solutions made by genetics, paleontology, systematics, and ecology. Three hours of lecture per week.

Prerequisites: 50.110 or 50.120; 50.332 recommended

50.432 Microbial Genetics

3 semester hours

A genetic analysis of microbes to provide insights into the molecular basis of gene action using viruses, bacteria, and lower eukaryotes. Topics include DNA and genetic recombination, plasmids, transposons, and recombinant DNA. Two hours of lecture and 3 hours of laboratory per week.

Prerequisites: Consent of instructor or two courses from 50.242, 50.332, and Chemistry 52.341

50.441 Cytogenetics

3 semester hours

Structure and behavior of chromosomes and their effects on development. Describes human genetic syndromes and the effects of chromosome abnormalities. Explores rela-

tionships between chromosomes, oncogenes, and cancer. Laboratory studies include microscopic techniques, cell culture methods, and karyotype preparation. Two hours of lecture/2 hours of laboratory per week.

Prerequisites: 50.233 or 50.332 and 50.271; or consent of the instructor

50.442 Virology of Mammals

3 semester hours

Introduces viral structure, classification, replication, genetics, and pathogenesis. Studies entail the diagnosis, prevention, and treatment of viral infection, and families of viruses that cause disease in humans and other mammals. Includes such current topics as AIDS and tumor virology.

Prerequisites: At least one course from 50.332, 50.342, 50.343, Chemistry 52.341; background in microbiology recommended

50.450 Mycology

3 semester hours

A critical survey of the kingdom Fungi, with emphasis on the Ascomycota, Basidiomycota, and Deuteromycota. Lectures cover the topics of morphology, physiology, biochemistry, cytology, genetics, systematics, ecology, and evolution. Laboratory stresses comparative morphology of higher fungi, laboratory techniques, and field mycology. Two hours of lecture/3 hours of laboratory per week.

Prerequisites: 50.120, 50.271, one course in microbiology, one in genetics, or consent of the instructor

50.455 Environmental Microbiology

3 semester hours

Aspects of applied microbiology as related to some fundamentals of public health, food contamination, water pollution, and sanitation. Emphasis on related laboratory testing procedures. Four hours per week. Additional time may be required.

Prerequisite: A laboratory course in microbiology

50.457 Entomology

Summer

3 semester hours

Studies the physiology, morphology, behavior, classification, and general biology of the insects. A collecting period will provide an opportunity for students to collect, mount, and properly display insects for study. Taxonomic emphasis limited to order and family. Equivalent to a minimum of five hours per week including laboratory.

Prerequisite: 50.110

50.458 Fungal Ecology

3 semester hours

A broad treatment of the ecology of fungi, examination of such topics as fungal decomposition of wood and bark, fungal decomposition of forest litter, ecology of aquatic fungi, community structure of soil and/or dung fungi, ecology of predaceous fungi, and aspects of mycorrhizal symbioses. Topics vary with semester. Laboratory also includes field component, and stresses demonstration of basic principles, testing existing and formulating new hypotheses, and research techniques. Two hours lectures/3 hours laboratory per week.

Prerequisite: 50.351 or concurrent enrollment or consent of the instructor

50.459 Ornithology

3 semester hours

Studies the biology of birds including bird identification in the field by song and sight. Studies birds of this region in relation to migration, time of arrival, and nesting. Two hours lecture/3 hours laboratory per week. Some study off-campus may be required. The field trip component at Marine Science Consortium, Wallops Island, Va., includes additional student costs.

Prerequisite: 50.110 or consent of instructor

50.461 Ethology

3 semester hours

In depth introduction to modern ethology. Emphasizes current models of animal behavior and theoretical foundations of ethology. Research and project oriented. Students may

incur additional cost due to field trip component at Marine Science Consortium, Wallops Island, Va. Three hours of lecture/2 hours of laboratory per week.

50.462 Plant Anatomy

3 semester hours

Outlines recent concepts of plant anatomy and historical consideration of classical researchers. Reviews the structure, function, growth, and morphogenesis of the vascular plants. Addresses composition and growth of meristems and the phenomena of subsequent tissue differentiation. Describes anatomical organization by developmental and comparative methods in order to explain important cell, tissue, and organ relationships. Two hours lecture/3 hours laboratory per week. Prerequisite: 50.120

50.463 Biological Photographic Techniques

3 semester hours

Presents theory and practice of photography as applied to biology including negative and printmaking, gross specimen photography, copying, transparencies, film strips, autoradiography, nature work in close-ups, photomicrography, thesis illustration, and other special techniques. Two hours of lecture and 3 hours of laboratory per week. Additional laboratory hours may be required. Prerequisite: Open only to majors in biology or allied health with at least Junior standing

50.470 Medical Parasitology

3 semester hours

Presents life history, physiology, taxonomy, and morphology of parasites of medical importance to humankind. Special attention given to clinical aspects such as pathology, symptomology, diagnosis, prevention, and treatment. Laboratory work stresses identification of parasitic disease through living and preserved material, the proper handling of specimens, and methods of professional patient interviewing. Five hours per week. Prerequisite: 50.110 and Chemistry 52.230 or 52.231, or consent of the instructor. Com-

pletion of additional course work in biology recommended.

50.473 Systemic Physiology

3 semester hours

Examines how normal body function is maintained by the precise control and integration of the specialized activities of the various organ systems. Three hours of lecture/2 hours of laboratory per week. Prerequisite: 50.371 and Chemistry 52.230 or 52.232 or consent of instructor. Background in algebra recommended.

50.475 Cell Physiology

3 semester hours

Applies physical and chemical principles to cellular processes, biochemistry or cellular constituents, physiochemical environment, bioenergetics, and intermediate metabolism. Three hours lecture and discussion per week. Prerequisites: 50.271 and 6 hours of biology; Chemistry 52.230 or 52.231 or consent of the instructor

50.479 Cooperative Education in Biology and Allied Health Sciences

3 or 6 hours per semester

A work-study program open to biological science majors who have completed 50.279. Differs from Internship 50.490 in that Cooperative Education must be paid and is at least a two-opportunity experience. The two Cooperative Education experiences may total from 9 to 12 semester hours since one of the two must be full time (equivalent to 6 semester hours), and the second may be part time (3 semester hours) or full time (6 semester hours). A cumulative total of 15 semester hours, including credit in 50.490, may be taken with a maximum of 6 semester hours counted toward requirements for the major. Prerequisite: 50.279

50.481-.489 Advanced Special Topics, Biology/Allied Health Sciences

3 semester hours

Presents an area of biology or allied health which requires the student to have some

background in biology. Three semester hours of credit may be applied to a biology major. Prerequisite: Determined by the instructor

**50.490 Internship in Biology and
Biology Research**
3-15 semester hours

A work-study program open only to juniors and seniors majoring in biology and allied health sciences. A maximum of 6 credits may apply toward requirements of biology and allied health sciences majors.

50.493 Honors Independent Study
Biology Research
3 semester hours

Open only to students admitted to the Honors Program. Consists of a field or laboratory investigation under the supervision of a biology faculty member.
Prerequisite: 50.390

COURSES NOT APPLICABLE TO BIOLOGY MAJOR

50.101 General Biology I
3 semester hours
Presents major concepts and principles of biology relating to humans. Lecture and discussion.

50.102 General Biology II
3 semester hours
Studies biology from the ecological, evolutionary, and behavioral perspective with emphasis on humankind.
Prerequisite: 50.101

50.107 Medical Terminology
1 semester hour
Studies roots, prefixes, and suffixes of medical terms via programmed instruction. Recommended for students in the health sciences. Pass/fail credit only.

50.111 General Biology Laboratory
1 semester hour
Offers "hands-on" experience emphasizing

biological concepts. Two hours laboratory per week.
Prerequisite: 50.101 or concurrent

50.173 Anatomy and Physiology I
4 semester hours
An introductory course integrating the structure and function of the human body. Covers fundamental principles of anatomy and physiology, the chemical basis of life, cell structure and function, tissues, integumentary system, skeletal system, muscular system, nervous system, and special senses. Three hours of lecture/3 hours of laboratory per week.

50.174 Anatomy and Physiology II
4 semester hours
Introductory course integrating the structure and function of the human body. Covers blood and defense mechanisms, cardiovascular system, lymphatic system, respiratory system, digestive system, metabolism, nutrition, urinary system, fluid and electrolyte balance, endocrine system, reproductive system, growth and development, and human genetics. Three hours lecture/3 hours laboratory per week.
Prerequisite: 50.173 or consent of instructor

50.205 Introduction to Nutrition
3 semester hours
A foundation of nutritional concepts and practices that can be applied to personal lives and incorporated into careers. Concepts include nutritional requirements for optimal health and performance throughout the life span, making food choices in the marketplace, analyzing nutritional information in the media, and controversial issues in nutrition and health.

50.230 Human Sexuality
3 semester hours
Presents an overview of the role of sexuality in the life of humans. Considers anthropological, biological, psychological, and sociological aspects of sexuality. Addresses values, ethics, and responsible decision making.

Additional cost for field components and student projects. Two hours lecture and one and one-half hours discussion per week.

50.231 Biology of Aging

3 semester hours

The biological mechanisms of the aging process are discussed with special emphasis on these processes in humans. Discussions include studies of aging at the molecular, cellular, systems, and organism levels of organizations. Three hours lecture per week.

50.240 Introductory Microbiology

3 semester hours

Presents elementary aspects of morphology, metabolism, and cultivation of bacteria, viruses, and other microorganisms with consideration of their relationship to public health and various industrial processes. Two hours lecture and 2 hours laboratory per week.

50.254 Social Implications of Biology

3 semester hours

Explores the societal implications of current thought in biology. Addresses values, ethics, and responsible decision making. Three hours of lecture and discussion per week.

**50.281 Special Topics, Allied Health
/50.289**

1-3 semester hours

Presents an area of biology or allied health of interest to a general audience.

Prerequisite: Determined by the instructor

**50.366 Anatomy and Physiology:
Head, Neck, and Thorax**

Spring

3 semester hours

Focuses on the anatomy, physiology, and development of the head, neck, and thorax. Emphasizes the organ systems that relate to the hearing and speech mechanisms. Three hours lecture/2 hours laboratory per week. Preference given to students in communication disorders.

Marine Science

Marine science courses are offered in the summer at the Marine Science Center near Wallops Island, Va. Courses in biology are offered by the Marine Science Consortium to satisfy requirements for the marine biology option and are acceptable as elective credit for biology majors. For more information, contact the adviser to the marine biology option. For related marine science courses, see the listing under the catalog section on *Earth Science/Geology*.

**MARINE SCIENCE
(Code 55)**

55.221 Marine Invertebrates

3 semester hours

A study of the life, history, habits, origin, development, physiology, anatomy, and taxonomy of the main phyla of invertebrates. A phylogenetic sequence is followed to show interrelationships among the phyla. Special emphasis is given to the Atlantic marine invertebrates. Laboratory and field work deal with collection, preservation, and identification of local species.

Prerequisite: One year of biology or consent of the instructor

55.241 Marine Biology

3 semester hours

A study of plant and animal life in the marine environment. Emphasis will be placed on physical and chemical environmental factors affecting the biota in the intertidal, open water, and benthic habitats. Common biota characteristics of each habitat will be investigated in terms of their natural history, morphology, and ecological relationships.

Prerequisite: Botany or zoology, or consent of the instructor

55.250 Wetland Ecology

3 semester hours

Structure and function of wetland ecosystems with special emphasis on coastal wetlands. Course considers the impact of hu-

mans on wetlands and ecological approach toward their management. Laboratory consists of field exercises in the study of wetlands. Prerequisite: A course in ecology, upperclass standing

55.260 Marine Ecology

3 semester hours

Interrelationships among animals, plants, and physical and chemical aspects of the environment will be studied, with stress on adaptations for survival that are unique to the marine environment.

55.298 Physiology of Marine Invertebrates

3 semester hours

Mechanisms and regulation of organ function in marine invertebrates with emphasis on homeostasis. Invertebrate examples of fundamental principles and unique mechanisms.

Prerequisite: Introductory biology

55.300 Behavior of Marine Organisms

3 semester hours

Concepts of ethology; discussion and observation of the influence of external and internal factors on the regulation; and control of behavior of organisms living in the marine coastal environment.

Prerequisite: General biology

55.320 Marine Microbiology

3 semester hours

A survey of methods and concepts of marine microbiology. Focus on the technical aspects of sample collection, microbial ecology of the marine environment, enrichment culturing, and methods of enumeration and identification with emphasis on marine bacteria.

Prerequisite: One year of biology

55.330 Tropical Invertebrates

3 semester hours

An introduction to tropical invertebrates, using a variety of collection and observation methods to sample nearshore and reef areas. Emphasis on systematics and ecology using

the communities approach. One week at Wallops Island, Va., for intensive review of general systematics and ecology of marine invertebrates; then two weeks in Florida sampling and identifying species and describing ecological communities. Course is a sequel to marine invertebrates or a landlocked invertebrate zoology course or a thorough landlocked zoology course.

Prerequisite: Marine invertebrates, invertebrate zoology, or a thorough zoology course with consent of the instructor

55.334 Marine Embryology

3 semester hours

Principles of development and differentiation in marine organisms at the molecular and supramolecular levels of organization. Laboratory includes both descriptive and experimental embryology.

Prerequisite: Introductory biology course

55.342 Marine Botany

3 semester hours

Taxonomy, physiology, ecology, and economic importance of marine and coastal plants as exemplified by those found on the Delmarva Peninsula. Laboratory techniques include collecting, preserving, identifying, and analyzing plants and plant materials, appropriate instrumentation to be used. Emphasis on in-the-field studies and laboratory analyses.

Prerequisite: A year of biology or one semester of botany

55.343 Marine Ichthyology

3 semester hours

A study of the internal and external structure of fishes, their systematic and ecological relationships, and their distribution in time and space.

Prerequisite: One year of general biology

55.344 Anatomy of Marine Chordates

3 semester hours

Familiarization with qualitative aspects of speciation. Establishment of understanding of basic and specialized structure and devel-

opment of marine chordates. Tracing of important trends (and their functional significance) in the evolution of this structure in various vertebrate lines in which there was radiation to or from a marine environment. Laboratory work involves dissection of freshly collected (and preserved) representative marine vertebrates.

Prerequisite: Introductory course in biology or zoology

55.345 Ornithology

3 semester hours

Course introduces avian fauna of the sea coast and enables comparison with inland species. Field work provides visual and vocal

identification; lecture material includes information on distribution, behavior, physiology, and anatomy of birds.

Prerequisite: A year of biology or consent of the instructor

55.431 Ecology of Marine Plankton

3 semester hours

Study of the phytoplankton and zooplankton in marine and brackish environments. Qualitative and quantitative comparisons made between planktonic populations of various types of habitats in relation to primary and secondary productivity.

Prerequisite: A year of biology

Faculty Credentials

JOSEPH P. ARDIZZI

B.S., St. Joseph's College; Ph.D., Cornell University

GEORGE P. CHAMURIS

A.A.S., Dutchess Community College; B.S., State University of New York at Albany; M.S., James Madison University; Ph.D., State University of New York, College of Environmental Science and Forestry

JAMES E. COLE

B.A., M.A., Western Michigan University; Ph.D., Illinois State University

JUDITH P. DOWNING

B.S., Bowling Green State University; M.A., Ph.D., State University of New York at Buffalo

PHILLIP A. FARBER

B.S., King's College; M.S., Boston College; Ph.D., Catholic University of America

JOHN R. FLETCHER

B.S., M.Ed., Bloomsburg State College

GEORGE J. GELLOS

B.S., Muhlenberg College; M.S., Ohio University; Ph.D., The Pennsylvania State University

MICHAEL HERBERT

B.S., University of Maryland; Ph.D., Lehigh University

FREDERICK C. HILL

B.S., M.S., Illinois State University; Ph.D., University of Louisville

THOMAS S. KLINGER

A.A., Bradford College; B.A., Macalester College; M.A., Ph.D., University of South Florida

MARK S. MELNYCHUK

B.S., Moravian College; Ph.D., Kent State University

LYNNE C. MILLER

B.S., College of Pharmacy, University of Rhode Island; M.S., University of Texas; Ph.D., New Mexico State University

LOUIS V. MINGRONE

B.S., Slippery Rock State College; M.S., Ohio University; Ph.D., Washington State University

JAMES E. PARSONS

B.S., M.S., Ph.D., The Ohio State University

ROBERT G. SAGAR

B.S., M.S., The Ohio State University

CYNTHIA A. SURMACZ

B.S., The Pennsylvania State University; Ph.D., Milton S. Hershey Medical Center, The Pennsylvania State University

MARGARET L. TILL

B.S., M.S., Ph.D., Auburn University

Department of Finance and Business Law

College of Business

Chairperson

David G. Heskel

Professors

Barbara E. Behr

Bernard C. Dill

Bruce L. Rockwood

Associate Professors

Rajkumar Guttha

David G. Heskel

Karen J. Elwell

Lalana T. Siergiej

Degree Program

Bachelor of Science in Business Administration

A total of 63 semester hours is required for a major in business administration. This degree program offers specializations in accounting, business economics, finance, management information systems, management, and marketing.

Goals and Objectives

The curriculum in business administration develops specialized knowledge and skills applicable to entry into the business world and provides the opportunity to prepare for advanced studies in business. To achieve these aims, the curriculum is dedicated to those educational ideals that increase the student's understanding of business practices, develop specialized occupational skills, and enhance analytical and scholarly development. The business person's role and the place and purpose of the business firm in society are matters for constant study and evaluation. A concern for personal development in the attributes of intellectual discipline and ethical values is integrated into the general education and business courses.

Specialization in Business Economics

A total of 15 semester hours is required for specialization in business economics. Courses include: Economics 40.311, 40.312, 40.313, and 40.422 or 40.423, plus 3 semester hours of Code 40 electives and credits of business administration electives. For course descriptions, see the section of the catalog titled *Economics/Business Economics/Political Economics*.

Required Courses

Required courses include: Economics 40.211, 40.212, 40.246, and 40.346 or Mathematics 53.118, 53.123; Accounting 91.220 or 91.221 for Accounting and Computer and Information Science majors; 91.223; Computer and Information Systems 92.150; Management 93.344, 93.445, and 93.446; Finance 96.313; Marketing 97.310; and Business Law 98.331.

General Education Courses

English 20.101 and 20.201 are required as General Education courses for the six specializations in the business administration degree program.

Elective Courses

Select courses in business and economics to complete a minimum of 63 semester hours. Courses designated with a 90, 91, 92, 93, 96, 97, 98 prefix are business courses and those with a 40 prefix are economics courses. Additional courses permitted as electives include: Speech Communication 25.307; History 42.223 (a substitute for 42.224 and 40.423), 42.472; and General Business 90.101, 90.241, 90.431, and 90.432.

Note: 90.101 will not be allowed for credit as a business elective once a student has com-

pleted 6 semester hours in business administration courses.

In selecting an elective, the student is reminded to have the proper prerequisites and to avoid elected courses below that level for which the student has already been prepared in that subject field.

Free Electives

Select free elective courses as needed to satisfy the 128 semester hours required for graduation.

Faculty Credentials

BARBARA E. BEHR

A.B., Cornell University; M.A., Hunter College;
J.D., Rutgers Law School

BERNARD C. DILL

B.S., M.B.A., The Pennsylvania State University;
D.B.A., George Washington University

KAREN J. ELWELL

A.B., A.M., J.D., University of Illinois at Urbana-
Champaign

RAJKUMAR GUTTHA

B.A., M.A., Nagarjuna University; M.A., Ph.D.,
Temple University

DAVID G. HESKEL

M.B.A., Ph.D., University of Business, Vienna,
Austria

BRUCE L. ROCKWOOD

B.A., Swarthmore College; J.D., University of Chi-
cago Law School

LALANA T. SIERGIEJ

B.A., Chulalongkorn University; M.B.A., Lehigh

Department of Business Education and Office Administration

College of Business

Chairperson

John J. Olivo Jr.

Professor

John J. Olivo Jr.

Associate Professors

Ellen M. Clemens

Nancy A. Dittman

Roger W. Ellis

Assistant Professors

Donna J. Cochrane

Dennis O. Gehris

Janice C. Keil

Degree Program

Bachelor of Science in Education

A total of 101 semester hours is required for a major in business education. This total reflects courses in the certification area, Professional Education, and General Education.

Goals and Objectives

The business education curriculum provides specialized knowledge and skills to prepare graduates for certification for secondary teaching, positions as training managers for business and government, and advanced study in business education and related fields.

Admission to Teacher Education

Students who are admitted as business education majors must apply for acceptance into teacher education upon completion of 32 or more semester hours. A grade point average of 2.5 is required for admission to the program. The curriculum offers four options for business teacher certification.

Required Courses

General Business 90.101, 90.241, and 90.333; Accounting 91.221; Computer and Information Systems 92.150; Office Systems 94.221, 94.302, 94.401, and 94.403; Business Law 98.331.

Elective Courses

Students must choose at least 3 semester hours from the following courses: General Business 90.234, Office Systems 94.330 and 94.405.

General Education Courses

The following are required General Education courses: English 20.101 and 20.201; Speech Communication 25.103; Economics 40.211, 40.212, and 40.346 or Mathematics 53.118; 53.141; Psychology 48.101; Special Education 70.101; and 3 semester hours in values, 3 semester hours in survival, 12 semester hours in arts and humanities, and 9 semester hours in natural sciences and mathematics.

Professional Education Courses

The student must have completed the following courses with a grade of C or better to be considered for certification as a teacher of business subjects:

Educational Foundations 60.201, 60.251, 60.291, 60.393	10 semester hours
Secondary Education 65.374	3 semester hours
General Business 90.402, 90.403, 90.404, 90.406	19 semester hours

Areas of Certification

Upon completion of the curriculum, receipt of a recommendation from the university, and passage of the National Teachers Examination, the Pennsylvania Department of Education issues an Instructional Level I Certificate. No certification is issued bearing only one certification area; Office Technologies is cited on all certifications in addition to one or more areas of certification.

Students must complete each course in their certification area with a grade of C or better. Areas of certification in business education which may be selected include:

Accounting — Accounting 91.222, 91.223, and 91.321

Data Processing — Computer and Information Systems 92.177, 92.251, and Office Systems 94.330

Marketing — Marketing 97.310 and two courses from Management 93.344, Marketing 97.430, and Business Law 98.332

Office Technologies — Office Systems 94.221, 94.302, 94.401, and 94.403

This certification area is required for all business education majors.

GENERAL BUSINESS (Code 90)

90.101 Introduction to Business

3 semester hours

Provides a study of business and its environment, organization, operation, and interrelationships with government and society. Business majors develop a broad base for further study in a specific area in business, while other majors become familiar with the American enterprise system and the functions and issues facing business today.

Prerequisite: Freshman/Sophomore standing

90.234 Business Mathematics

Spring 3 semester hours

Covers concepts and principles of basic business operations and mathematics as it relates to accounting, retailing, and finance.

Prerequisite: Freshman/Sophomore standing

90.241 Principles of Selling

3 semester hours

Includes a study of selling as a profession, preparation for successful selling, steps and procedures associated with the sales process, and special selling topics. Students apply sales principles and techniques while conducting sales presentations.

Prerequisite: Freshman/Sophomore standing or the approval of the instructor

90.333 Business Communications and Report Writing

3 semester hours

Applies theories and principles of effective communication to the solving of common business problems. Psychological and organizational strategies are used in the writing of business reports and other documents. Use of microcomputer software encouraged.

Prerequisite: Junior/Senior standing

90.402 Methods of Teaching Business Education

3 semester hours

Emphasizes a variety of methods and materials for teaching certification areas of business education. Must be scheduled the semester prior to student teaching and concurrently with 90.403. Classroom discussions closely correlate with the experiences of 90.403.

90.403 Business Education Field Experience

1 semester hour

Initiates an awareness of the teaching and learning atmosphere of the professional teacher in the classroom. Students provided opportunities to undertake the responsibilities assigned to a classroom teacher as well as assuming some of the teaching role competencies. Must be scheduled the semester prior to student teaching.

90.404 Professional Semester in Business Education

12 semester hours

Includes orientation experiences to observe the operation of a school and specific classes as well as 16 weeks of participatory teaching experiences correlated with classroom studies under full-time supervision. Must be scheduled concurrently with 90.406 Clinical Studies in Business Education.

90.406 Clinical Studies in Business Education

3 semester hours

Presents seminars on principles of education for business teachers, methods of teaching business subjects, strategies, and problems of classroom teaching. Classroom discussions closely correlated with the experiences of 90.404.

90.410 Special Topics in Business Education and Office Systems

1-3 semester hours

A study of the aspects of business education or office systems. Not available as a regular course offering.

90.431 Independent Study in Business

1-3 semester hours

Topic and outline of project must be approved by the department chairperson and dean of the college.

Prerequisite: Open to Seniors only

90.432 Internship in Business

1-6 semester hours

Provides students with opportunities to acquire practical experiences in work situations in office systems.

Prerequisites: Approval by department chairperson; QPA of 2.50 and 80 semester hours earned

90.460 Business and Office Workshop

1-3 semester hours

Students acquire an awareness and understanding of the knowledge pertaining to the professional development and improvement of business skills, the enhancement of business and office education as a professional responsibility, and their role in the business world.

Faculty Credentials

ELLEN M. CLEMENS

B.S., M.Ed., Bloomsburg State College; D.Ed., The Pennsylvania State University

DONNA J. COCHRANE

A.A.S., Dutchess Community College; B.S., M.S., State University of New York at Albany; Ed.D., Temple University

NANCY A. DITTMAN

B.S., Florida State University; M.Ed., University of Florida; Ed.D., University of Colorado

ROGER W. ELLIS

B.S., M.Ed., Bloomsburg State College; Ed.D., Arizona State University

DENNIS O. GEHRIS

B.S., M.A., Rider College; Ed.D., Temple University

JANICE C. KEIL

B.S., M.Ed., Bloomsburg State College

JOHN J. OLIVO JR.

B.S., Davis and Elkins College; M.Ed., Trenton State University; Ph.D., Michigan State University

Department of Chemistry

College of Arts and Sciences

Chairperson

Wayne P. Anderson

Professors

Wayne P. Anderson
Barrett W. Benson
Lawrence L. Mack
Roy D. Pointer

Assistant Professors

Marlana B. Blackburn
Christopher P. Hallen
Michael E. Pugh
Emeric Schultz
Robert K. Tubbs
Bruce E. Wilcox

Degree Programs

Bachelor of Science in Chemistry, Bachelor of Arts in Chemistry, Bachelor of Science in Clinical Chemistry

The Bachelor of Science program requires 68-70 semester hours for a major in chemistry.

The Bachelor of Arts program requires 51-53 semester hours for a major in chemistry.

The Bachelor of Science program requires 57 semester hours for a major in clinical chemistry.

Goals and Objectives

The Bachelor of Science program in chemistry is approved by the committee on professional training of the American Chemical Society and is designed to give a solid background in chemical principles and laboratory experience so that students are well prepared to pursue a career in the chemical industry or an advanced degree in chemistry, biochemistry, or related fields. Advanced chemistry courses and an independent research project are required as part of this program.

The Bachelor of Arts program in chemistry is designed for students who wish to combine a strong background in chemistry with some other area, such as pre-med or pre-law. Since fewer advanced courses are required than for the bachelor of science degree, students have more time to take courses in other disciplines. Students in this degree program are often double majors.

The Bachelor of Science program in clinical chemistry is designed to prepare students for a career in a hospital or a pharmaceutical clinical laboratory.

The Bachelor of Science in Education program is designed for students who wish to enter the field of education and teach chemistry on the secondary school level. Requirements for the Bachelor of Science in Education are found in the section on **Secondary Education**.

Required Courses for Bachelor of Science in Chemistry

Required courses include: Chemistry 52.111 and 52.112, or 52.118, 52.113, 52.221, 52.231, 52.232, 52.251, 52.322, 52.341, 52.361, 52.362, 52.452, 52.471, 52.481, 52.492; Mathematics 53.125, 53.126, 53.225; Physics 54.211, 54.212; Computer Science 56.210.

Note: Students who want American Chemical Society certification upon graduation must complete the above degree requirements.

Required Courses for Bachelor of Arts in Chemistry

Required courses include: Chemistry 52.111 and 52.112, or 52.118, 52.113, 52.221, 52.231, 52.232, 52.322, 52.361, 52.362, 52.481; Mathematics 53.125, 53.126, 53.225; Physics 54.211, 54.212; Computer Science 56.210.

Required Courses for Bachelor of Science in Clinical Chemistry

Required courses include: Chemistry 52.111 and 52.112, or 52.118, 52.113, 52.221, 52.231, 52.232, 52.322, 52.341, 52.361, 52.362, 52.481; Biological and Allied Health Sciences 50.110, 50.343, 50.371; Mathematics 53.125, 53.126, 53.225; Physics 54.211, 54.212, Computer Science 56.210; clinical year (30 semester hours) at Geisinger Medical Center in Danville, Pa.

Accreditation

The Department of Chemistry is recognized by the Committee on Professional Training of the American Chemical Society (ACS) as one which meets their nationally recognized standards for undergraduate education in chemistry. This recognition is significant for students considering professional employment in the chemical industry and/or those seeking admission to postgraduate education programs in the sciences and medicine.

Students meeting the requirements for the bachelor of science in chemistry are certified by the Chemistry Department to the national office of the American Chemical Society and become eligible for membership in the society without the usual two-year waiting period.

Cooperative Program in Engineering

Students interested in chemical engineering can earn a bachelor's degree in chemistry and a Bachelor of Science in chemical engineering through a cooperative program with The Pennsylvania State University. Three years at Bloomsburg and two years at Penn State are required for this program. (See details listed under *Engineering and Liberal Arts*.)

CHEMISTRY

(Code 52)

52.100 Chemistry and the Citizen

3 semester hours

Discussion of chemical principles, the importance of chemistry, the use of chemicals and their impact on society and the environment. Three hours of class per week.

52.101 Introductory Chemistry

3 semester hours

Presents an introduction to chemistry for students with little or no background in chemistry. Surveys the principles of chemistry with emphasis on the fundamentals of chemical and physical measurements and calculations. Three hours of class per week. Not intended as a beginning course for science majors.

52.103 Introductory Chemistry

Laboratory

2 semester hours

Introduces basic chemical principles and

laboratory techniques and applies them to common materials. One hour of lecture and 3 hours of laboratory per week.

Prerequisite: 52.101 or concurrent

52.108 Physiological Chemistry

Spring 4 semester hours

Surveys the essentials of organic and biochemistry. Includes bonding, structure, nomenclature, organic functional group reactions, and metabolism of biomolecules. Four hours class per week.

Prerequisite: 52.101 or 52.112 or 52.118

52.111 General Chemistry I

3 semester hours

First half of a two-semester course sequence offering a systematic survey of the major topics in chemistry as recommended by the American Chemical Society. It is designed to be the first college-level chemistry course for students who are interested in majoring in one of the natural sciences or mathematics. Three hours class per week.

52.112 General Chemistry II

3 semester hours

Continuation of the two semester sequence started in Chemistry 52.111. A survey of chemistry with major emphasis on the application of chemical principles to the solution of chemical and physical problems. Three hours class per week.

Prerequisite: 52.111

52.113 Chemistry Laboratory

2 semester hours

Introduces the theory and practice of fundamental chemistry laboratory techniques including qualitative analysis. One hour lecture and 3 hours laboratory per week.

Prerequisite: 52.112 or 52.118 concurrent or completed

52.118 University Chemistry

Fall

4 semester hours

An advanced placement general chemistry course designed for better-prepared science majors and students in the Scholars Program. Surveys the principles of chemistry in a four-day-per-week format giving sufficient coverage of subject matter to serve as a prerequisite for all 200 level chemistry courses. Four hours class per week.

Prerequisite: Placement by the Department of Chemistry

52.221 Quantitative Analytical Chemistry

4 semester hours

Introduces fundamental principles of quantitative chemical analysis utilizing classical and modern techniques. Stresses laboratory skills and calculations of quantitative analysis. Three hours lecture and 4 hours laboratory per week.

Prerequisites: 52.112 or 52.118, 52.113

52.230 Introductory Organic Chemistry

4 semester hours

Survey of functional group organic chemistry. Emphasis on fundamentals of structure, stereochemistry, and reaction mechanisms necessary for an understanding of the chemistry of biomolecules. Not open to chemistry

majors. Three hours of lecture and 3 hours of laboratory per week.

Prerequisites: 52.112 or 52.118, 52.113

52.231 Organic Chemistry I

4 semester hours

First half of a two-term sequence. Emphasizes chemistry of hydrocarbons and their derivatives. Covers molecular structure, stereochemistry, reaction mechanisms, syntheses and analyses of these classes of compounds. Three hours of lecture and 4 hours of laboratory per week.

Prerequisites: 52.112 or 52.118, 52.113

52.232 Organic Chemistry II

4 semester hours

A continuation of 52.231. Emphasizes reactions of common functional groups. Spectroscopy and its use in structure determination is introduced. Covers molecular structure, stereochemistry, reaction mechanisms, syntheses, and analyses of representative compounds. Three hours of lecture and 4 hours of laboratory per week.

Prerequisite: 52.231

52.251 Inorganic Chemistry

Spring

3 semester hours

Applications of the principles of inorganic chemistry to a systematic study of the descriptive chemistry of the elements. Three hours of class per week.

Prerequisite: 52.112 or 52.118

52.322 Instrumental Analytical

Chemistry

Spring

4 semester hours

Presents theory and laboratory applications of some of the instrumental methods of analysis. Topics include spectrophotometry, chromatography, polarography, electroanalysis, and nuclear magnetic resonance. A laboratory-centered course. Three hours of lecture and 4 hours of laboratory per week.

Prerequisites: 52.221 and 52.361

52.341 Biochemistry**4 semester hours**

Emphasizes structure, reactivity, and metabolic reactions of the naturally occurring biomolecules. Discusses selected topics from the various metabolic pathways (both anabolic and catabolic). Introduces biochemical techniques encountered by the modern biochemist. Three hours of lecture and 4 hours of laboratory per week.

Prerequisite: 52.230 or 52.232; 52.221 recommended

52.361 Physical Chemistry I**Fall****4 semester hours**

Studies thermodynamics; Gibbs free energy and equilibrium; kinetic theory of gases and solutions; chemical kinetics. Three hours of lecture and 4 hours of laboratory per week.

Prerequisites: 52.112 or 52.118, and 52.113; Mathematics 53.225; Physics 54.212

52.362 Physical Chemistry II**Spring****4 semester hours**

Continuation of 52.361; Schrödinger quantum mechanics, solid state, molecular orbital theory; spectroscopy. Three hours of lecture and 4 hours of laboratory per week.

Prerequisite: 52.361

52.433 Advanced Organic Chemistry**Spring****3 semester hours**

Presents advanced theory, stereochemistry, and utility of organic reactions. Emphasizes reactive intermediates. Three hours of class per week.

Prerequisites: 52.232 and 52.362 or concurrent

52.442 Advanced Topics in Biochemistry**Spring****3 semester hours**

Emphasizes quantitative treatment of biochemical concepts. Presents further topics in biochemistry. Topics may include enzyme structure and mechanism; recombinant DNA; active transport; biophysical chemistry. Three hours of class per week.

Prerequisites: 52.232, 52.341; Physics 54.212

52.452 Advanced Inorganic Chemistry**Fall****3 semester hours**

Study of advanced principles of inorganic chemistry and areas of current research interest in inorganic chemistry. Three hours of class per week.

Prerequisites: 52.251 and 52.362

52.463 Physical Chemistry III**Spring****3 semester hours**

Advanced course dealing with specialized topics in physical chemistry. Subject matter varies with interests of instructor and students, i.e., polymer chemistry, spectroscopy or kinetics. Three hours of class per week.

Prerequisite: 52.362 or consent of instructor

52.471 Advanced Laboratory**Fall****4 semester hours**

Integrates laboratory techniques common to organic and inorganic research. Topics include separation, synthesis, isolation, purification, characterization, and structure determination. Two hours of lecture and 6 hours of laboratory per week.

Prerequisites: 52.232, 52.322, and 52.251, 52.452 or concurrent

52.481 Chemistry Seminar**Spring****1 semester hour**

Stresses preparation and presentation of scientific papers on topics in chemistry. Involves the use of technical literature as a data base in organizing topics for oral presentations to faculty and peers. One hour class per week.

52.491 Independent Study I**Special Topics in Chemistry****1-3 semester hours**

Takes the form of a directed laboratory or library-oriented investigation of one or more topics of mutual interest to student and instructor. See subsection on *Independent Study*.

52.492 Independent Study II**Chemical Research****3 semester hours**

Laboratory investigations of selected prob-

lems for advanced students under the supervision of a chemistry faculty member. See the subsection on *Independent Study*.

52.493 Honors Independent Study III Chemical Research

3 semester hours

The third semester of a laboratory investiga-

tion of selected problems under the supervision of a chemistry faculty member. Open only to students in the Honor's Program. Approximately 120 hours per semester. See the subsections on *Independent Study* and the *Arts and Sciences Honors Program*.

Faculty Credentials

WAYNE P. ANDERSON

A.A.S., Jamestown Community College; B.A., Harpur College; M.S., Ph.D., University of Illinois

BARRETT W. BENSON

A.B., Middlebury College; Ph.D., University of Vermont

MARLANA B. BLACKBURN

B.S., Ph.D., University of Florida

CHRISTOPHER P. HALLEN

B.A., Assumption College; Ph.D., University of New Hampshire

LAWRENCE L. MACK

A.B., Middlebury College; Ph.D., Northwestern University

ROY D. POINTER

B.S., University of Kansas; M.S., Ph.D., University of Michigan

MICHAEL E. PUGH

B.S., University of California, Davis; Ph.D., Arizona State University

EMERIC SCHULTZ

B.A., University of California; Ph.D., University of Illinois

ROBERT K. TUBBS

B.Sc., Ph.D., Ohio State University

BRUCE E. WILCOX

B.S., M.S., State University of New York at Oswego; Ph.D., University of Cincinnati

Adjunct Faculty in Clinical Chemistry

Geisinger Medical Center, Division of Laboratory, Danville, Pa.

John P. Anhalt, Ph.D., M.D.

Chairmperson of Laboratory Medicine

Paul Bourbeau, Ph.D.

Director of Microbiology

Jay Burton Jones, Ph.D.

Director of Chemistry/Toxicology

Mildred Louise Kaiser Fleetwood, Ph.D.

Director of Immunology

Archimedes D. Garbes, M.D.

Associate Pathologist

Stephen Meschter, M.D.

Associate Pathologist

Alvin Swartzentruber, B.S.

*Educational Coordinator
School of Medical Technology*

Aloysious J. Schulski, B.A.

Supervisor of Clinical Chemistry Laboratory

Department of Computer and Information Systems

College of Business

Chairperson
Harold K. Frey

Gene M. Gordon
Charles J. Hoppel

Professor
Frank S. Davis Jr.

Assistant Professors
Patricia M. Boyne
John E. Hartzel

Associate Professors
James S. Dutt
Harold K. Frey

Degree Program

Bachelor of Science in Computer and Information Science

A total of 57 semester hours is required for a major in computer and information science.

Goals and Objectives

The Computer and Information Science (CIS) curriculum in the College of Business prepares students in applications programming and information systems technology as defined to a business environment. The program of study focuses on commercial software and hardware with an emphasis on problem solving, data flow and analysis, design techniques, and system solutions within a commercial context oriented to computer systems.

The program is restrictive in the technical requirements (computer content courses) and requires the student to develop a business emphasis. The intent of the program is to prepare the student for the job market in the areas of commercial systems and programming. Typical job skills necessary to compete for positions as application programmer, programmer analyst, system analyst, data base administrator, and information specialist are provided.

Admission

Students enrolled in other colleges within Bloomsburg University who wish to transfer into the CIS curriculum must have completed a minimum of 15 semester hours at the university and have earned a cumulative quality point average of 2.5 or higher. Consideration for admission to the computer and information systems program is selective, and applications are reviewed with the Office of Academic Advisement during mid-semester only.

General Education Courses

English 20.101 and 20.201 are recommended as General Education courses.

Required Courses

Select two courses from the following: Mathematics 53.118, 53.123, 53.125, 53.126 (the combination of 53.123 and 53.125 does not satisfy this requirement), and either 53.141 or 53.241; Economics 40.211, 40.212; Accounting 91.221 and 91.222; Computer and Information Systems 92.177, 92.252, 92.256, 92.350, 92.351, 92.352, and 92.354.

Specialization

Choose 18 semester hours in restricted electives from computer and information science courses through consultation with an adviser.

**COMPUTER and INFORMATION
SYSTEMS
(Code 92)**

**92.150 Introduction to Computer and
Information Science
3 semester hours**

Introduces the use of the computer for problem solving and processing of commercial information. Includes a study of hardware and software concepts, systems, commercial applications, and data communications. "Hands-on" experience with word processing, spreadsheet, and file management software is required using MS-DOS microcomputers and a PC Network.

**92.177 Structured Programming
Methodology
3 semester hours**

Develops the skill and knowledge necessary to solve commercial problems using a computer and investigates software tools used within the CIS curriculum. A basic understanding of data representation, data structures, control structures, structured programming, algorithm development, and computer concepts studied. Programming experiences required using PL/I as a high-level language and the UNIX operating system.
Prerequisite: 92.150 or equivalent

**92.251 Mini/Micro Programming Systems
3 semester hours**

A survey of the minicomputer and microcomputer capability available to the small business. Focuses on business applications and system design considerations applicable to Mini/Micro Programming Systems. Programming experiences appropriate to the Mini/Micro environment required with emphasis on Dbase, MS-DOS, PC Networks and UNIX.
Prerequisite: 92.150 or equivalent

**92.252 Business Oriented Programming
3 semester hours**

Familiarizes students with COBOL language

and develops their ability to use COBOL as an effective problem-solving language. Students define, write, test, debug, and document several COBOL problems.
Prerequisite: 92.177 or Mathematics 56.121

**92.254 Management Information Systems
3 semester hours**

A study of how computer-based information systems provide information for effective decision making. The data base concept, data entry, operator-machine interaction, and data retrieval concepts are presented from the management view.
Prerequisites: 92.150 and Accounting 91.220 or 91.221

**92.256 Data and Information Structures
3 semester hours**

Studies logical and physical operations in applications with character strings, linked lists, graphs, and trees. Emphasizes techniques and mechanics of programming using UNIX environment and PL/I as a high-level language. Includes a study of file structure and data base concepts.
Prerequisite: 92.252 or Mathematics 56.210

**92.350 Analytical Computing Concepts
3 semester hours**

A detailed development of the C programming language and programming techniques appropriate to the UNIX environment presented. Data representation, code generation, and programming considerations related to file maintenance with UNIX and C explored and developed through actual programming experiences.
Prerequisite: 92.256 or Mathematics 56.122

**92.351 Systems Analysis and Design
3 semester hours**

Delineates basic systems and analysis and design, forms design, data collection, data files, file maintenance, systems flow-charting, integration of systems, feasibility studies, systems implementation, and documentation.
Prerequisites: 92.252 and 92.256 or Mathematics 56.122

92.352 Advanced Programming

3 semester hours

Presents advanced concepts of programming in COBOL with major emphasis on table handling, Index Sequential Files, subroutine linkage, and interactive programming. Requires students to write, test, and debug COBOL programs.

Prerequisites: 92.252 and 92.256 or Mathematics 56.122

92.354 Data Base Processing Systems

3 semester hours

Details and examines data base terminology, organization, and models. Analysis, design, and administration of a relational compatible data base explored through actual applicable programming experiences.

Prerequisite: 92.256 or Mathematics 56.122

92.356 Operating Systems

3 semester hours

Presents an overview of operating systems including real and virtual operating systems and communications software and techniques. Includes diagnostic facilities, utility routines, and system commands. Provides a detailed look at UNIX.

Prerequisite: 92.350

92.358 Data Communication Systems

3 semester hours

Data communications terminology, technology, and the functional characteristics of communications hardware and software detailed and explored. Emphasizes systems and programming considerations as related to a commercial environment.

Prerequisite: 92.256 or Mathematics 56.122

92.432 Internship in Computer and Information Systems

3-6 semester hours

An educational arrangement between the student and an approved industrial, business, or government agency that provides a supervised work experience in a professional area of computer and information science. The experience relates to the academic principles

and theories upon which the Computer and Information Systems curriculum is based.

Prerequisites: Grade point average of 2.5 and 80 semester hours

92.450 Expert Systems and Artificial Intelligence

3 semester hours

A survey of basic concepts and techniques of expert systems and artificial intelligence applied to commercial programming systems. Knowledge representation, constraints, and capabilities of different notational systems, search strategies, problem representation, and problem-solving methods used in expert systems developed. Stresses applications and illustrations from the commercial environment.

Prerequisite: 92.256 or Mathematics 56.122

92.452 Advanced Software Development

3 semester hours

Presents a formal approach to modern techniques in software design and development and provides for hands-on experience for students to apply the techniques. An integral part of the course is the involvement of students working in teams in the organization, the management and development of a large software project. Emphasizes use of design automation tools.

Prerequisite: 92.351

92.456 Managerial Computer Applications

3 semester hours

Provides practical experience in the analysis of business problems through advanced techniques and concepts of programming and system analysis with major emphasis on record keeping control and management information systems. Requires students to present a systems proposal.

Prerequisite: 92.351

Faculty Credentials

PATRICIA M. BOYNE

B.A., Ladycliff College; M.S., The Pennsylvania State University; CDP

FRANK S. DAVIS JR.

B.S., M.Ed., Shippensburg State College; Ph.D., University of Pittsburgh

JAMES S. DUTT

B.S., M.S., Ph.D., The Pennsylvania State University

HAROLD K. FREY

B.S., Lock Haven State College; M.A., State College of Iowa; M.S., Elmira College

GENE M. GORDON

B.A., Southampton College; M.A., Antioch University; Ed.D., University of Massachusetts

JOHN E. HARTZEL

B.S., Bloomsburg State College; M.Ed., Lehigh University

CHARLES J. HOPPEL

B.S., University of Scranton; M.E.E., Ph.D., Syracuse University

Department of Mathematics and Computer Science

College of Arts and Sciences

Chairperson

Charles M. Brennan

Associate Professors

E. Dennis Huthnance Jr.

Clinton J. Oxenrider

Professors

Stephen D. Beck

Charles M. Brennan

Paul G. Hartung

James C. Pomfret

John H. Riley Jr.

June L. Trudnak

Assistant Professors

Curt Jones

Zahira S. Khan

Thomas L. Ohl

Degree Program

Bachelor of Science in Computer and Information Science

A total of 54 semester hours is required for a major in computer science.

Goals and Objectives

The Computer and Information Science program of the Department of Mathematics and Computer Science gives students a thorough grounding in the design, production, and analysis of software. Both the practical and theoretical issues involved in software and its development are emphasized. Students also obtain a basic understanding of hardware and its principles, particularly as it influences software. Mathematics is an essential tool in the curriculum. Students work in a variety of computing environments, ranging from single-user personal computers to multiple-user minicomputers and mainframes. Graduates are prepared for either further study in computer science or employment in the software industry.

Required Courses

The following courses are required: Speech Communication 25.103; Mathematics 53.125, 53.126, 53.185, and 53.241; Computer Science 56.121, 56.122, 56.240, 56.330, 56.350, 56.355; and Computer and Information Systems 92.350 and 92.356. Code 92 courses are offered through the College of Business. See section under *Computer and Information Science* for course descriptions.

Specialized Requirements

Select five courses totaling 15 semester hours from the following: 53.381, 53.492, 56.210, 56.320, 56.361, 56.373, 56.374, 56.410, 56.471, 56.472, and 56.491; Computer and Information Systems 92.352, 92.354, and 92.358.

COMPUTER SCIENCE (Code 56)

56.110 Introduction to Computer Science

3 semester hours

Presents an introduction to computers and data processing—what they are, how they function, how they are controlled, and how

they are used in problem solving. Basic concepts include hardware, I/O systems, data communication and storage, flow charting, and programming in BASIC on a micro-computer. Hands on experience with word processing, spreadsheets, and data base software is required. Not appropriate for a student who has taken Computer and Information Systems 92.150.

56.121 Computer Science I

3 semester hours

An introduction to computer science with an emphasis on programming. Involves the use of a high-level language and the development of good programming style and fundamental techniques.

Prerequisite: 56.110 or the equivalent

56.122 Computer Science II

3 semester hours

The design and execution of applications software using the Pascal language; utilizes the principles of modularization, top-down design, and the fundamental algorithms of searching, sorting, stacks, queues, linked lists, trees, and recursion.

Prerequisite: 56.121

56.210 Algorithmic Processes for Computers

3 semester hours

Emphasizes the concepts of FORTRAN 77; input and output, program documentation and control, structured programming, extended modes of arithmetic, character strings, and program development and execution.

Prerequisite: Programming experience or consent of the instructor

56.215 Programming in LISP

3 semester hours

An introduction to the LISP programming language with an emphasis on those features of LISP (e.g. functional style, emphasis on recursion, the list as the principle data structure, interactive programming environment) that distinguish it from other languages.

56.240 Microcomputer Concepts

3 semester hours

Advanced topics in programming with a microcomputer, operating systems, introductory concepts of microcomputer architecture, and machine and assembly language for microprocessors.

Prerequisite: 56.122

**56.305 Computer Applications in Secondary School Mathematics
Spring/Odd Numbered Years**

3 semester hours

Studies the theory, design, and usage of a computer as an instructional or training tool. The microcomputer is used to demonstrate and develop software applications.

Prerequisite: 56.121

56.320 Introduction to Logic Programming

3 semester hours

Use of logic for programming, logic interpreters, recursive programming, nondeterministic, and nonprocedural programming. Program verification and correctness. Applications.

Prerequisites: 56.122 or Computer and Information Systems 92.256 and Mathematics 53.185 or consent of the instructor.

**56.330 Computer Organization
Spring**

3 semester hours

Design of combinational and sequential circuits. Coding, various instruction formats and representation of data. Memory, central processors, input-output devices. Introduction to computer architecture. Characteristics and features of some existing computer systems.

Prerequisites: 56.122, Mathematics 53.185

56.350 Organization of Programming Languages

3 semester hours

An introduction to the issues of programming languages: syntax, semantics, parsing, language specification, and analysis. Emphasis on the run-time behavior of programming language constructs.

Prerequisite: 56.240

56.355 Analysis of Algorithms and Data Structures

3 semester hours

A detailed analysis of algorithms and data structures. Examination of theoretical and experimental performance of algorithms and

data structures. Particular attention to algorithms for searching and sorting and techniques for implementing and manipulating various data structures: stacks, queues, trees, graphs, and files.

Prerequisite: 56.122

56.361 Coding and Signal Processing

Fall

3 semester hours

A mathematical approach to codes and ciphers. Includes security codes, coding for efficiency in computer storage, error-correcting codes. Signal processing, including the Fourier transform and digital filters. Individual projects required.

Prerequisites: 56.210 or 56.122, and Mathematics 53.126

56.373 Numerical Methods in

Computing

Fall

3 semester hours

An analysis and application of various methods of numerically solving problems in the areas of nonlinear equations; systems of equations, interpolation, and polynomial approximation; numerical integration; approximation theory; and differential equations. Students design and execute algorithms on the computer for specific numerical procedures.

Prerequisites: 56.210, Mathematics 53.124 and 53.126

56.374 Introduction to Discrete

Systems Simulation

Spring/Even-Numbered Years

3 semester hours

Studies the ways in which systems can be modeled for computer solution. Emphasizes stochastic behavior by discrete random processes and the simulation tools for their solution.

Prerequisites: A calculus course, a statistics course, and a programming course.

56.410 Computer Graphics

Spring/Even-Numbered Years

3 semester hours

Presents the basic principles for design, use,

and understanding of graphics systems. Hardware and software components of graphics systems examined with a major emphasis on creating and manipulating graphics displays using a software graphics package; the package includes standard computer graphics algorithms. Two and three dimension graphics, animation, color, hidden line, and hidden surface algorithms studied in depth.

Prerequisites: 56.121, Mathematics 53.124 or 53.126

56.471 Numerical Analysis

Alternate Years

3 semester hours

Provides a computer-oriented analysis of algorithms of numerical analysis. Topics include nonlinear equations, interpolation and approximation, differentiation and integration, matrices and differential equations.

Prerequisites: 56.373, Mathematics 53.322

56.472 Matrix Computation

Alternate Years

3 semester hours

Presents a computer-oriented analysis of matrices. Includes Gaussian reduction, LDU factorization, special reduction techniques for tridiagonal matrices, iterative methods, and a study of the matrix eigenvalue problem.

Prerequisites: 56.373, Mathematics 53.118 or 53.225

56.491 Special Topics in Mathematics

3 semester hours

Presents an area of computer science which is not available as a regular course offering. Prerequisite: Consent of the instructor

Faculty Credentials

STEPHEN D. BECK

B.S., Tufts University; M.S., Iowa State University; Ph.D., Rensselaer Polytechnic Institute

CHARLES M. BRENNAN

B.S.Ed., Bloomsburg State College; M.A., Montclair State College; Ph.D., The Pennsylvania State University

PAUL G. HARTUNG

B.A., Montclair State College; M.A., University of Colorado; Ph.D., The Pennsylvania State University

E. DENNIS HUTHNANCE JR.

B.S., M.S., Ph.D., Georgia Institute of Technology

CURT JONES

B.S., Lock Haven; M.S., University of Iowa

ZAHIRA S. KHAN

B.A., Punjab University; M.Sc., Islamabad University; B.S., Bloomsburg University; M.A., Temple University

THOMAS L. OHL

B.S., Bloomsburg State College; M.Ed., Millersville State College

CLINTON J. OXENRIDER

B.S., Bloomsburg State College; M.A., The Pennsylvania State University; D.A., Idaho State University

JAMES C. POMFRET

B.S., Bates College; M.S., New Mexico State University; Ph.D., University of Oklahoma

JOHN H. RILEY JR.

B.A., Lehigh University; M.S., Ph.D., The University of Connecticut

JUNE L. TRUDNAK

B.S., Bloomsburg State College; M.S., Bucknell University; Ph.D., The Pennsylvania State University

Dental Hygiene

School of Health Sciences, College of Professional Studies

Program Coordinator

James E. Cole, professor, Department of Biological and Allied Health Sciences

Degree Program

Bachelor of Science in Education

A total of 128 semester hours is required for a major in dental hygiene.

Goals and Objectives

The baccalaureate programs in allied health sciences encompass those health areas in which individuals support, aid and increase the efficiency and effectiveness of other health professionals by becoming a contributing member of a health care team. Programs in this area combine natural science and liberal arts education with clinical instruction. In general, students who complete any of the programs may enter their professions immediately. Others may select postgraduate education in health care. Central to most allied health programs, especially the clinical portion, is satisfactory completion of the clinical standards, often referred to as the Essentials. These standards establish requirements related to curriculum, personnel, financing, resources, and records.

Program of Study

Requirements for the degree program in dental hygiene are essentially two-fold. First, the student must possess a valid license to practice dental hygiene in the Commonwealth of Pennsylvania issued by the State Dental Council and Examining Board and the Department of Education. The professional education requirements for dental hygiene are the satisfactory completion of an approved two-year (not less than 30 hours each week) dental hygienist course of instruction or its equivalent and graduation from a dental hygiene school approved by the State Dental Council and Examining Board. The second primary requirement is the satisfactory completion of at least 70 semester hours of professional and general education courses at Bloomsburg University.

Professional Education Courses

A total of 19 semester hours is required in professional education courses. These courses include Psychology 48.210, 48.211; Educational Foundations 60.202, 60.391, 60.393, and Internship 79.312; *Health Care Leadership* — Biological and Allied Health Sciences 50.282 or Management 93.345; and *Statistics* — Mathematics 53.141 or Psychology 48.160.

Elective Courses

The following courses are recommended as electives: Mathematics 53.174 or Computer and Information Systems 92.150; Psychology 48.311; and Anthropology 46.390.

Department of Developmental Instruction

Chairperson

Jesse A. Bryan

John Wardigo

Irvin Wright

Associate Professor

Jesse A. Bryan

Instructors

Vincent J. DeMelfi

James F. Mullen

Carol J. Venuto

Janice Walters

Assistant Professors

Harold C. Ackerman

Virgie Bryan

Goals and Objectives

The Department of Developmental Instruction provides developmental study skills courses and other supportive services that assist students in making the transition from high school to college. These courses and services help students to improve basic skills in reading, writing, and mathematics. All students, regardless of their current academic program or prior academic performance, may enroll in developmental courses offered by the department.

The goal of developmental instruction is to assist in the successful performance of all students and their smooth integration into the higher education process. The philosophy of the Act 101/Educational Opportunity Programs is based upon the principles of prevention of problems and dedication to meeting individual needs. These programs offer a full range of academic, advisory, and counseling services to students. Services also are open to non-program students who wish to take advantage of the developmental reading, writing, and mathematics courses and labs conducted by faculty and student tutors.

Developmental instruction assists students in increasing their reading and comprehension skills. Grades earned in the two developmental reading courses are factored into a student's cumulative average, but do not count toward graduation. Students not enrolled through Act 101 or EOP may be recommended for a course based on the results of a diagnostic exam. The Department of Developmental Instruction offers a one-credit course in study skills and a three-credit course reading and study skills, count toward graduation. The Reading Lab, located in Room 310 of Bakeless Center, offers individualized instruction in reading textbooks and learning strategies for most courses on campus. Group instruction also is provided for selected courses based on student enrollment. Workshops on test-taking strategies and mini-courses on speed reading are scheduled periodically.

A developmental writing course is available to any university student as a primer to entering the required English courses. Students not enrolled through Act 101 or EOP may be recommended for this course based on results of a diagnostic exam. These courses carry a grade, but credits do not count toward graduation. Students who do not need a full semester of instruction may establish an individualized instruction program through the Writing Center, located in Room 310, Bakeless, or attend any one of the two-week mini-courses on special topics offered through the year.

The purpose of developmental mathematics is to improve mathematical skills necessary for the successful completion of college-level courses. Students not enrolled through Act 101 or EOP may be recommended based on results of a diagnostic exam. The mathematics lab, located in Room 309 of Bakeless also may offer workshops on topics such as Building Self-Confidence in Mathematics. Students may use a variety of instructional materials including individualized learning programs, supplementary texts, audio tapes, microcomputers, and computer software (for computational skills, geometry, and algebra). The Department of

Developmental Instruction is in Room 14, Waller Administration Building (389-4492) and is open from 8 a.m. to 4:30 p.m., Monday through Friday.

DEVELOPMENTAL INSTRUCTION (Code 01)

01.011 Developmental Reading I

Summer 2 semester hours

Course's major objective is to improve a student's reading ability to a level where he/she can compete at the next level. Instruction given in a laboratory and lecture format. Weekly contacts provide individualized prescriptions. Two semester hours towards full-load status; grade counted in QPA. Credits do not apply toward graduation.

01.025 Developmental Reading II

3 semester hours

Course presents major components of the reading process and emphasizes basic reading skills. Three credits towards full-load status; grade counted in QPA. Credits do not apply toward graduation. Prerequisite to College Reading and Study Skills for students scoring below the established cutoffs on the Nelson Denny Reading Test.

01.041 Basic Writing

Summer 2 semester hours

Course designed to improve spoken and written language and to enhance development of skills necessary for formal writing, particularly punctuation, sentence structure, and paragraph writing. Includes studies and measurements of the effectiveness of informal writing, advertising copy, and traditional learning. Product and process discussed and compared to various approaches to learning. Two credits towards full-load status; grade counted in the QPA. Credits do not apply toward graduation.

01.060 Developmental Writing

3 semester hours

Open to students who test below standard established by the university. Using writing and revising tasks, students learn to control

basic sentence patterns, improve grammar, mechanics, and spelling, and try basic rhetorical strategies in paragraphs. Three credits toward full-load status; grade counted in QPA. Credits do not apply toward graduation.

01.071 Developmental Mathematics

Summer 2 semester hours

Geared for students with inadequate arithmetic skills. Study skill techniques and problem-solving strategies explored. Emphasizes basic computer literacy including the LOGO language, and uses computer-assisted instruction. Two credits toward full-load status; grade counted in QPA. Credits do not apply toward graduation.

01.080 Basic Algebra

3 semester hours

Course is recommended for students with minimal algebraic skills as evidenced by student preparation and results obtained in diagnostic tests. A program is designed for each student which may include operations of rational numbers, ratio, proportion, percent, geometric concepts, basic algebraic concepts and skills. Concepts may include beginning linear equations. Two credits toward full-load status; grade counted in QPA. Credits do not apply toward graduation.

01.090 Intermediate Algebra

3 semester hours

Emphasizes intermediate algebraic skills necessary if success is to be obtained in College Algebra. Topics include linear equations and functions, exponents and polynomials, factoring, rational expressions, and quadratic equations. Provides concepts and skills necessary for college-level math courses that build on a limited algebraic background. Three credits toward full-load status; grade counted in QPA. Credits do not apply toward graduation.

01.095 Introductory Science

Summer 3 semester hours

An elementary science course that acquaints the student with scientific terminology and methodology; that familiarizes the student with the study skills unique to the mastery of science; that prepares the student for subsequent courses in science; and that makes the student more comfortable with the nature and characteristics of science. Three credits toward full-load status; grade counted in QPA. Credits do not apply toward graduation.

01.100 College Study Skills

1 semester hour

Course designed to provide, formulate, and apply the methods and models of learning strategies. Principle focus on content area reading and study skills. Outside readings and discussion focus on the nature of learning and

the individual's responsibility to learning. Product and process discussed and compared to various approaches to learning. Credit applies toward graduation.

01.120 College Reading and Study Skills

3 semester hours

Course develops the complex reading and study skills essential for college learning. Focuses on content area reading and study strategies, reading flexibility, and critical reading skills. Outside readings focus on the nature of learning and the individual's responsibility to learning. Students may be required to use the reading lab for computerized vocabulary lessons and speed reading exercises. A student may not take both College Study Skills and College Reading and Study Skills. Credits apply toward graduation.

Faculty Credentials

HAROLD C. ACKERMAN

B.S.Ed., Bloomsburg State College; M.A., University of Kansas

JESSE A. BRYAN

A.B., Johnson C. Smith University; M.Ed., Temple University; Ph.D., Toledo University

VIRGIE BRYAN

B.S., Fayetteville State College; M.Ed., Bloomsburg State College

VINCENT J. DEMELFI

B.S., M.Ed., Bloomsburg State College

JAMES F. MULLEN

B.S., The Pennsylvania State University; M.Ed., Bloomsburg State College

CAROL J. VENUTO

B.A., Houghton College; M.S., Syracuse University

JANICE WALTERS

B.A., Bloomsburg State College; M.A., Bloomsburg State College

JOHN WARDIGO

B.S., Bloomsburg State College; M.Ed., Kutztown University

IRVIN WRIGHT

A.A., Dodge City Junior College; B.Ed., State University of New York at Buffalo; M.Ed., University of Toledo

Department of Geography and Earth Science

College of Arts and Sciences

Chairperson

James R. Lauffer

Professors

Duane D. Braun
Wendelin R. Frantz
James R. Lauffer

Associate Professors

Norman M. Gillmeister
Joseph R. Pifer
Nicholas M. Short
Dale A. Springer

Degree Programs

Bachelor of Science in Earth Science, Bachelor of Science in Geology

A total of 23 semester hours is required for a major in earth science.

A total of 38 semester hours is required for a major in geology.

Goals and Objectives

The primary goal of the faculty of the geology-earth science program is to provide our students with a solid foundation in geology and/or the earth sciences. This is accomplished by balancing classroom studies, laboratory exercises, and field experience with ancillary courses in chemistry, physics, and mathematics. The departmental program also supports the university's aim of providing a strong liberal arts background for our students. This integration of science and liberal arts successfully prepares our graduates for entry-level employment in the earth science profession or for acceptance into highly competitive graduate programs in the geological sciences.

Bachelor of Science in Earth Science

The degree program in earth science requires the following courses: Earth Science 51.101, 51.102, 51.111, 51.112, 51.255, and 51.259, plus three courses elected from 51.105, 51.261, 51.262, 51.320, 51.355, 51.360, 51.365, 51.369, 51.370, 51.453, 51.461, 51.462, 51.468, 51.470, and 51.475, and approved courses offered by the Marine Science Consortium; Mathematics 56.110, plus two courses selected from Mathematics 53.113, 53.123, 53.124, 53.125, 53.126, and 53.141; Chemistry 52.111, 52.112, and 52.113; Physics 54.110, 54.111, and 54.112.

A maximum of 9 semester hours from the Marine Science Consortium may be applied toward this bachelor's degree. A listing of acceptable marine science course numbers follows the Code 51 course descriptions. For descriptions of these marine science courses, see the section of the catalog on *Biology*.

Bachelor of Science in Geology

The degree program in geology requires the following courses: Earth Science 51.101, 51.102, 51.111, 51.112, 51.261, 51.262, 51.360, 51.365, 51.369, 51.370 or 51.470, 51.468, and 51.493; Computer Science 56.110; Mathematics 53.123 and 53.124 or 53.125 and 53.126, 53.141; Chemistry 52.111, 52.112, and 52.113; Physics 54.111 and 54.112 or 54.211 and 54.212.

**EARTH SCIENCE and GEOLOGY
(Code 51)**

51.100 Field Applications of Earth Science

3 semester hours

Open to QUEST summer program students only. Not applicable toward a degree in earth science.

51.101 Physical Geology

3 semester hours

Studies the landscape in relation to the structure of the earth's crust; agents at work to change landforms; classification and interpretation of rocks. One semester hour optional lab; an afternoon field trip is required.

51.102 Historical Geology

3 semester hours

Examines the evolution of earth and life on earth as interpreted from rock and fossil evidence; particular emphasis is on the geologic history of North America. One semester hour optional lab; afternoon field trip required.

51.105 Environmental Geology

3 semester hours

Application of geologic knowledge to environmental concerns. Emphasizes mineral, energy, soil, and water resources along with earth processes that are hazardous to mankind. An afternoon field trip with a nominal fee is required.

51.111 Physical Geology Laboratory

1 semester hour

Presents an introduction to the practice of fundamental geology laboratory techniques including qualitative and quantitative analysis. Two hours of laboratory per week. It is recommended that it be taken concurrently with 51.101

51.112 Historical Geology Laboratory

1 semester hour

Provides an interpretation of earth history through the identification and evolution of the rock and fossil record and through the interpretation of geologic maps. Two labora-

tory hours per week. It is recommended that it be taken concurrently with 51.102.

51.255 Meteorology

3 semester hours

Studies the atmosphere via the use of gas laws and the underlying principles of atmospheric change. The field trip component incurs an additional cost to students of approximately \$20 for air fare.

51.259 Oceanography

3 semester hours

Provides an introduction to the geologic, chemical, and physical aspects of the ocean basins. Emphasizes ocean basin structure, topographic features, wave motion, current circulation, and methods of investigation. One weekend field trip is encouraged.

51.261 Mineralogy

Fall

4 semester hours

Reviews the origin, occurrence, and identifying characteristics of common minerals. Stresses both megascopic and microscopic techniques. Three hours of class, 2 hours of laboratory per week.

51.262 Petrology

Spring

4 semester hours

Presents megascopic and petrographic analysis and identification of rocks with emphasis on field occurrences and associations. Three hours of class, 2 hours of laboratory per week. Prerequisite: 51.261

51.320 Remote Sensing of the Earth

3 semester hours

Stresses the use of remote sensing technology to explore for, monitor, and manage Earth's natural resources. Two hours of class, 2 hours of laboratory per week.

51.355 Synoptic Meteorology

3 semester hours

Presents observation and analysis of data for understanding and predicting the complexities of the atmosphere.

Prerequisite: 51.255 or consent of instructor

51.360 Introduction to Paleontology

4 semester hours

Introduces students to modern concepts and methods in paleobiology using examples from various groups of organisms important in the fossil record. Field trips and laboratory work are an integral part of the course.

Prerequisite: 51.102 or Biology 50.211 or consent of the instructor

51.365 Geomorphology

Fall

4 semester hours

Study of the origin of landforms with emphasis on the geologic processes and structures that generate the landforms and applications of landform analysis. Two-day weekend field trip is required. Three hours of class, 2 hours of laboratory per week.

Prerequisite: 51.101 or consent of instructor

51.369 Structural Geology

Spring

4 semester hours

Analyzes rock deformation based upon the principles of rock mechanics and the utilization of data from field investigations. Three hours class, 2 hours laboratory per week.

51.370 Hydrology

Fall

3 semester hours

Study of water movement upon and within the earth with emphasis on calculations used in flood forecasting, surface water supply, and groundwater supply. Two hours class, 2 hours laboratory per week.

51.451 Field Techniques in Earth Science

Summer

6 semester hours

Provides intensive field and laboratory training in the use of equipment and techniques in geology, hydrology, and cartography. Field trips are integral, vital parts of the course.

Prerequisite: 15 credit hours in earth science courses or consent of the instructor

51.453 Programming and Operation of the Planetarium

3 semester hours

Provides an intensive study in the methods of effective educational use of the planetarium

as a teaching and motivational device as well as supervised training and practice in the operation, use, and maintenance of the planetarium equipment.

51.461 Mineral Resources

3 semester hours

Studies both metallic and nonmetallic mineral deposits. Emphasizes the origin of deposits, exploration, and exploitation methods used, and environmental problems encountered.

Prerequisite: 51.261 or consent of instructor

51.462 Fundamentals of Petroleum

Geology

3 semester hours

Presents an introduction to petroleum, its properties, origin, accumulation, exploration, and exploitation.

51.468 Stratigraphy and Sedimentation

Fall

4 semester hours

Studies processes and agents which erode, transport, and deposit sediments and the geologic interpretation of the resulting rocks. Three hours of class, 2 hours of laboratory per week.

51.470 Groundwater Hydrology

Spring

3 semester hours

Covers groundwater flow theory, well hydraulics exploration techniques, development of groundwater supplies, and prevention or correction of groundwater pollution. A one- or two-day field trip required. Two hours of class, 2 hours of laboratory per week.

51.475 Independent Study in Earth

Science

1-3 semester hours

Provides an opportunity for student research in various areas of earth science. Research is conducted under supervision of a faculty member. See catalog subsection on *Independent Study*.

Prerequisite: 21 semester hours in earth science

51.493 Bibliography and Research

3 semester hours

Provides for library and/or field research in geology.

Prerequisites: 51.261, 51.262, 51.468 or consent of instructor

51.496 Internship in Earth Science

3-15 semester hours

Provides for a work-study program available only to juniors and seniors majoring in earth science. Not applicable toward a major or a minor in earth science.

Marine Science Consortium

Courses in marine science are offered during the summer by the Marine Science Consortium. The consortium is a joint program sponsored by several Pennsylvania state universities. The following are acceptable as elective courses for majors in earth science and biology. For course descriptions and semester hours, see the section of the catalog on *Biology*.

MARINE SCIENCE (Code 55)

55.110 Introduction to Oceanography

55.211 Field Methods

55.212 Navigation

55.221 Marine Invertebrates

55.241 Marine Biology

55.250 Management of Wetland Wildlife

55.260 Marines Ecology

55.270 Scuba Diving

55.280 Field Biology

55.331 Chemical Oceanography

55.342 Marine Botany

55.343 Ichthyology

55.344 Anatomy of Marine Chordates

55.345 Ornithology

55.364 Marine Geology

55.398 Developmental Biology of Marine Organisms

55.420 Marine Micropaleontology

55.431 Ecology of Marine Plankton

55.458 Exploration Methods in Marine Geology

55.459 Coastal Geomorphology

55.498/55.598 Topics in Marine Science

55.500 Problems in Marine Science

55.510 Oceanography I

(In-Service Teachers)

55.511 Oceanography II

(In-Service Teachers)

55.520 Marine Microbiology

55.530 Coastal Sedimentation

55.540 Environmental Science Education

55.570 Research Cruise-Biology, Geology, Pollution

Faculty Credentials

DUANE D. BRAUN

B.S., New York at Fredonia; M.A., Ph.D., The Johns Hopkins University

WENDELIN R. FRANTZ

A.B., College of Wooster; M.S., Ph.D., University of Pittsburgh

NORMAN M. GILLMEISTER

B.A., Harvard College; M.A., Indiana University; M.A., Ph.D., Harvard University

JAMES R. LAUFFER

B.S., Allegheny College; M.S., University of Hawaii; Ph.D., University of Delaware

JOSEPH R. PIFER

B.S., Clarion State College; M.A., Arizona State University

NICHOLAS M. SHORT

B.S., St. Louis University; M.A., Washington University; Ph.D., Massachusetts Institute of Technology

DALE A. SPRINGER

A.B., Lafayette College; M.S., University of Rochester; Ph.D., Virginia Polytechnic Institute and State University

Department of Economics

College of Arts and Sciences

Chairperson

Woo Bong Lee

Professors

Ujagar S. Bawa
Peter H. Bohling
Saleem M. Kahn
Woo Bong Lee
TejBhan S. Saini

Associate Professors

George B. N. Ayithey
Mehdi Haririan
Rajesh K. Mohindru
Robert P. Ross

Assistant Professors

Sukhwinder Bagi
Robert S. Obutelewicz
Elizabeth P. Patch

Degree Programs

Bachelor of Arts in Economics, Bachelor of Science in Business Economics, Bachelor of Arts in Political Economics

A total of 45 semester hours is required for a major in economics.

A total of 48 semester hours is required for a major in business economics.

A total of 45 semester hours is required for a major in political economics.

Goals and Objectives

The Department of Economics at Bloomsburg University offers a systematic study of the economic activities of government, business, and consumers. The core of the curriculum enables the student to master basic principles of economics, to develop analytical skills, and to interpret economic phenomena.

To accommodate the diversity of interests at the undergraduate level, the department has three tracks open to economic majors, two lead to a Bachelor of Arts and one to a Bachelor of Science. The three tracks are: a general study of economics in preparation for graduate school or a career in the public or private sector; business economics, the student is interested in analytical economics and intends to pursue graduate work or career in business or government; and political economics, if the prospect of a career dealing with political and international problems in the public arena is appealing or the student intends to pursue advanced study in the field.

Required Courses

The following five courses are required: Economics 40.211, 40.212, 40.311, 40.312, 40.346; plus a track in either economics, business economics, or political economics.

Elective Courses

Electives in economics, business, and political science in any of the options require the adviser's approval.

General Economics

The Bachelor of Arts program is intended for general study of economics. One course from Economics 40.246 or Mathematics 53.125; 27 semester hours electives in economics that include Economics 40.400 or 40.446.

Business Economics

The Bachelor of Science program is intended for the student interested in analytical study of economics related to business. Courses: Business 91.221 and 91.222 or 91.220 and 91.223, Business 93.345, 96.313, 97.310; Computer Science 56.110 or equivalent; 15 semester hours electives in economics, which include Economics 40.446.

Political Economics

The Bachelor of Arts program is intended for the student interested in political economics and who hopes to enter a career in some aspect of international relations or trade: Political Science 44.120, 44.336; Economics 40.315, 40.422, 40.460, 6 semester hours electives in economics; 9 semester hours electives in political science.

The following pairs of courses in economics and political science are recommended as pertinent to the purpose of the option in political economics: 40.423 paired with 44.405; 40.422 with 44.366; 40.433 with 44.280; 40.316 with 44.452; 40.410 with 44.336; 40.315 with 44.331. Study of a foreign language is recommended.

Minor in Economics

The minor provides a basic competence in economics for non-economics majors and constitutes 18 semester hours. Courses required for a minor in economics include: Economics 40.211, 40.212, 40.311, and 40.312; 6 semester hours elective in economics chosen from General Economics Theory (Economics 40.313, 40.315, 40.316, 40.410, 40.413, 40.415 and 40.433), Statistical Analysis (Economics 40.346, 40.400, and 40.446), and Economic History and Systems (Economics 40.422, 40.423, 40.424, 40.434, and 40.460).

ECONOMICS (Code 40)

40.211 Principles of Economics I

3 semester hours

Studies macroeconomics: nature of the economic problem; economic concepts; institutional framework; supply, demand, and the price system; national income accounting; determination of output and employment levels; consumption, saving, and investment behavior; business cycles; inflation and unemployment; monetary and fiscal institutions and theory; economic growth.

40.212 Principles of Economics II

3 semester hours

Studies microeconomics: supply, demand, the price system; theory of consumer behavior and the firm; cost and productions analysis, output and price determination, resource allocation, and determination of factor incomes under perfect and imperfect markets; current economic problems; and international economics.

Prerequisite: 40.211

40.246 Business and Economic Mathematics

3 semester hours

Presents an introduction to basic mathematical tools most frequently employed in economics and business, e.g., systems of linear equations, inequalities, elements of linear programming, matrix algebra, logarithms, mathematics of finance, and differential and integral calculus.

40.311 Intermediate Micro-Theory and Managerial Economics

3 semester hours

Reviews the theory of consumer behavior and the firm; output and price determination under different market systems; pure competition, pure monopoly, oligopoly and monopolistic competition; production and cost analysis; allocation of resource and distribution of income; comparison of behaviors of competitive, monopolistic, and oligopolistic product and resource markets; constrained and unconstrained optimization techniques and their applications to business

decisions and business practices; welfare economics.

Prerequisites: 40.211, 40.212, 40.246

40.312 Intermediate Macroeconomic Theory

3 semester hours

Stresses the national income analysis; theory of income determination, employment, and price levels; monetary and fiscal institutions; theory and policy; investment, interest, and demand for money; business cycles; inflation and unemployment; national debt; macroeconomic equilibrium; prices, wages, and aggregate supply, economic growth, foreign trade and balance of payments; economic policy.

Prerequisites: 40.211, 40.212, 40.246

40.313 Labor Economics

Fall

3 semester hours

Presents the economics of the labor market; supply of and demand for labor; nature and theory of wages; productivity and inflation; unionism; historical development; theories of labor movements; trade union governance; collective bargaining; government interventions and public policy.

Prerequisite: 40.212

40.315 Business and Government

3 semester hours

Surveys government policies for maintaining competition, for substitution regulation in place of competition and for substituting public for private enterprise; tests of various government policies in light of economic theory and historical experience.

Prerequisite: 40.212

40.316 Urban Economics

Fall

3 semester hours

Applies economic theory and recent empirical findings to urban resource use. Analyzes problems of unemployment, housing, education, transportation, pollution, and equal opportunity.

Prerequisite: 40.212

40.317 Population and Resource Problems

3 semester hours

Reviews classical theories of population growth; recent economic models of population correlating natural resources; capital accumulation and technological change; and population problems in North America, European, and developing countries. Analyzes recent trends in birth and death rates as factors in population growth. Studies measures of population and labor force, their distribution by age, sex, occupation, regions; techniques for projecting population levels. Course is not offered on a regular basis.

Prerequisite: 40.212

40.346 Business and Economics Statistics I

3 semester hours

Presents descriptive statistics, averages, dispersion, elements of probability, index numbers, time series, introduction to regression, and correlation analysis, theory of estimation, and testing of hypothesis as applied to business and economic problems.

Prerequisite: 40.212

40.400 Introduction to Econometrics

3 semester hours

Applies modern statistical methods to economic problems; time series and cross-sectional analysis of measurements of demand and costs; macroeconomics models; income distribution and growth model.

Prerequisites: 40.212, 40.346

40.410 Public Finance

3 semester hours

Analyzes revenues and expenditures of local, state, and national government in light of micro and macrotheory; criteria and models of government services; subsidies, etc., the principles of taxation, public borrowing, and public debt management; impact of fiscal and budgetary policy on resource and income allocation, internal price and employment stability; the rate of growth and world economy.

Prerequisite: 40.212

40.413 Money and Banking

3 semester hours

Reviews the historical background and development of monetary practices and principles of banking with special attention given to commercial banking and credit regulations and current monetary and banking development.

Prerequisite: 40.212

40.415 Environmental Economics

3 semester hours

A study of the economics of environmental quality. Environmental facts and social circumstances are examined with particular emphasis on market and non-market solutions to the environmental problems. Topics include the private market and its efficiency, externalities, environmental quality as a public good, income distribution effects of government environmental quality as a public good, income distribution effects of government environmental programs; water resources and water quality, problem of air quality, and quality of life and other environmental problems; prohibitions on, and regulation of, polluting activities, taxes, subsidies, and effluent charges; population, economic growth, and environmental quality.

Prerequisite: 40.212

40.422 Contrasting Economics

Spring 3 semester hours

Outlines theories of capitalism and socialism with a special emphasis on Marxian theory. Compares theoretical and actual performance of capitalism, socialism, and communism.

Prerequisite: 40.212

40.423 History of Economic Thought

Spring 3 semester hours

Surveys economic theories propounded in the past and their effect on present-day thinking about economic, business, and political systems. The surplus value theory; economic planning as part of government responsibility; relation of family budgets to

Engel's Law; government responsibility for employment and rent control.

Prerequisite: 40.212

40.424 Economic History of the Western World

Fall 3 semester hours

Presents a comparative analysis of the economic theory of Europe and the United States with particular attention to the interplay of changes in business, financial and labor institutions, products and production, adaptations to resource differences, and conflicting economic doctrines.

Prerequisite: 40.212

40.433 International Economics

Spring 3 semester hours

Addresses the pure theory of international trade. Outlines the gains from trade; free trade and protection; balance of payments; foreign exchange and capital movements; the dollar and the international monetary system and international liquidity shortage.

Prerequisite: 40.212

40.434 Economic Growth of Underdeveloped Areas

Fall 3 semester hours

Presents studies of stagnating economies; theories of underdevelopment; operative resistances to economic growth; role of capital, labor, population growth, and technological advance; development planning and trade in development settings.

Prerequisite: 40.212

40.446 Business and Economic Statistics II

3 semester hours

Presents sampling and sampling distributions; probability; tests of hypothesis; decision making; regression and correlation analysis contingency tables, analysis of variance; designs of experiments; computer applications.

Prerequisites: 40.212, 40.346

40.460 Advanced Political Economy

3 semester hours

Applies economic and political models of social decision making to historical problems from local through international levels. Presents an evaluation of market; political and mixed techniques in particular areas from the 18th through the 20th centuries. Course not offered on a regular basis.

Prerequisite: 40.212

40.470 Senior Seminar

Spring

3 semester hours

Discusses current literature on economic theory and economic policy. Students read one journal article a week on which they

write a report and make a seminar presentation.

Prerequisite: Senior standing or consent of the instructor

40.490 Independent Study in Economics

1-3 semester hours

Provides students with an opportunity to receive individualized instruction as they pursue indepth inquiries into previously specified subject matter of special interest within the field of economics. Topic and outline must be developed with a faculty sponsor and approved by the department during the preceding semester of residence. See the catalog subsection on *Independent Study*.

Faculty Credentials

GEORGE B. N. AYITTEY

B.S., University of Ghana; M.A., University of Western Ontario; Ph.D., University of Manitoba

SUKHWINDER BAGI

B.A., M.Ed., M.A., Punjab University; Ph.D., Vanderbilt University

UJAGAR S. BAWA

B.A., M.A., Punjab University; A.M., University of Pennsylvania; Ph.D., Cornell University

PETER H. BOHLING

B.A., Miami University; M.A., The University of Iowa; Ph.D., University of Massachusetts

MEHDI HARIRIAN

B.A., National University; M.A., Iowa State University; Ph.D., New School for Social Research

SALEEM M. KHAN

B.A., S.E., College, Bahawalpur; M.A., Government College, Lahore, Punjab University; Ph.D., J. Gutenberg University

WOO BONG LEE

B.S., Delaware Valley College; M.S., Ph.D., Rutgers University

RAJESH K. MOHINDRU

B.A., M.A., DAV College; M.A., Ph.D., University of Pennsylvania

ROBERT S. OBUTELEWICZ

B.A., B.S., Carson-Newman College; M.A., Ph.D., University of Massachusetts at Amherst

ELIZABETH P. PATCH

B.S., M.S., Ph.D., Lehigh University

ROBERT P. ROSS

B.A., M.A., Washington University

TEJBHAN S. SAINI

B.A., M.S., University of Punjab; D.F., Duke University; Ph.D., New School of Social Research, N.Y.

Department of Curriculum and Foundations

School of Education, College of Professional Studies

Chairperson

William S. O'Bruba

Lorraine A. Shanoski

R. Edward Warden

Professors

Raymond E. Babineau

Nancy G. Gilgannon

Charlotte M. Hess

John R. Hranitz, assistant chairperson

Gorman L. Miller

William S. O'Bruba

Edward J. Poostay

David E. Washburn

Assistant Professors

Neil L. Brown

Chris A. Cherrington

Robert L. Clarke

Henry D. Dobson

Gary J. Doby

Mary G. Harris

M. Hussein Fereshteh

Frank Misiti

Gilda M. Oran

Donald L. Pratt

Robert L. Remaley Jr.

Mary Alice Wheeler

Bonnie L. Williams

Associate Professors

Bonita B. Franks

Martin M. Keller

Degree Programs

Bachelor of Science in Education–Early Childhood Education, Bachelor of Science in Education–Elementary Education, Bachelor of Science in Education–Secondary Education

A major in early childhood education (N-K-3) requires a minimum of 128 semester hours.

A major in elementary education (K-6) requires a minimum of 128 semester hours.

A major in secondary education (7-12) may require from 128 to 140 semester hours.

Goals and Objectives

Four curricula in education are offered through the School of Education's Department of Curriculum and Foundations in the College of Professional Studies: one leading to certification for kindergarten through grade 6 (K-6); one in early childhood education which leads to certification for nursery, daycare, preschool, kindergarten, and grades 1-3 (N-K-3); a dual certification program that combines the K-6 and the N-K-3 programs; and a curriculum in secondary education.

Secondary Education is a major planned to offer academic, cultural, and professional experience significant to the personal and professional competence of a beginning teacher of a specialized subject area in the secondary schools. The curriculum requirements comprise general education, professional education, and a subject area concentration.

Early Childhood Education (N-K-3)**Recommended General Education Courses**

A total of 12 semester hours in social sciences elected from three of the groupings listed in the section on General Education Requirements is recommended for students in this program. This should include at least 6 semester hours in composition and 3 semester hours in literature.

Academic Background Courses

Academic background courses include: 6 semester hours in mathematics; 3 semester hours in biology; 3 semester hours in physical science; 12 semester hours in social sciences elected from

three of the groupings listed in the section on General Education Requirements, including at least 6 semester hours in composition and 3 semester hours in literature.

Required Courses

The following courses in Educational Foundations (Code 60), Early Childhood and Elementary Education (Code 62), and Special Education (Code 70) develop knowledge of the nature of the child, the nature of the school, the learning process, general methods of teaching, and methods of teaching particular subjects, and to provide student teaching experience. A total of 68 semester hours is taken in required courses. None may be taken on a pass/fail basis.

- 60.201 Field Studies in Education I
- 60.204 Educational Computing and Technology
- 60.251 Psychological Foundations of Education
- 60.291 Principles of Teaching
- 60.301 Field Studies in Education II
- 60.311 Educational Measurements and Evaluation
- 60.375 Reading for the Socially Disadvantaged Child
- 60.393 Social Foundations of Education or 60.394 Education in an Urban Society
- 60.497 Teaching in Education: First Experience
- 60.498 Teaching in Education: Second Experience
- 62.121 Introduction to Early Childhood Education
- 62.302 Teaching Science in the Elementary School
- 62.310 Teaching Fine Arts in the Elementary School
- 62.322 Seminar in Learning Experiences with Young Children
- 62.371 Teaching Reading in the Elementary School
- 62.373 Diagnostic and Remedial Reading
- 62.390 Teaching Social Studies in the Elementary School
- 62.391 Teaching Language Arts in the Elementary School
- 62.398 Teaching Mathematics in the Elementary School
- 62.410 Workshop in Preschool Education (6 semester hours)
- 70.101 Introduction to Exceptional Individuals

Elective Courses

A minimum of 9 semester hours is taken in elective courses. None of these courses may be taken on a pass/fail basis.

- 05.311 Methods and Materials in Elementary School Physical Education
- 05.320 Health and Safety in the Elementary School
- 20.351 Literature for Children
- 30.205 Children's Art
- 60.302 Research Literacy
- 62.304 Environmental Education in the Elementary School
- 62.376 Language Experiences for Children
- 62.389 Individualized Instruction Activities in the Elementary School
- 62.400 Workshop in Teaching Mathematics in Early Childhood and Elementary Education
- 62.480 A Study of Discipline in the Elementary School
- 79.312 Internship in Education (1 to 3 semester hours only in this area)

An area of concentration is optional.

No free electives are available for this program.

Elementary Education (K-6)

Recommended General Education Courses

A total of 24 semester hours in General Education courses is prescribed for the elementary education major inclusive of 6 semester hours in mathematics, 3 semester hours in biology, 3 semester hours in physical science, and 12 semester hours in social science elected from three of the groupings listed in the section on General Education Requirements. This should include at least 6 semester hours in composition and 3 semester hours in literature.

Required Courses

These courses are intended to develop knowledge of the nature of the child, the nature of the school, the learning process, general methods of teaching, and methods of teaching particular subjects, and to provide student teaching experience. A total of 53 semester hours is taken in required courses. None may be taken on a pass/fail basis.

- 60.201 Field Studies in Education I
- 60.204 Educational Computing and Technology
- 60.251 Psychological Foundations of Education
- 60.291 Principles of Teaching
- 60.301 Field Studies in Education II
- 60.311 Educational Measurements and Evaluation
- 60.375 Reading for the Socially Disadvantaged Child
- 60.393 Social Foundations of Education or 60.394 Education in an Urban Society
- 60.497 Teaching in Education: First Experience
- 60.498 Teaching in Education: Second Experience
- 62.302 Teaching Science in the Elementary School
- 62.310 Teaching Fine Arts in the Elementary School
or 35.311 Music in the Elementary School
- 62.371 Teaching Reading in the Elementary School
- 62.373 Diagnostic and Remedial Reading
- 62.390 Teaching Social Studies in the Elementary School
- 62.391 Teaching Language Arts in the Elementary School
- 62.398 Teaching Mathematics in the Elementary School

Elective Courses

No elective courses may be taken on a pass/fail basis. Students select a minimum of 9 semester hours from the following courses:

- 05.311 Methods and Materials in Elementary School Physical Education
- 05.320 Health and Safety in the Elementary School
- 20.351 Literature for Children
- 30.205 Children's Art
- 60.302 Research Literacy
- 62.121 Introduction to Early Childhood Education
- 62.304 Environmental Education for the Elementary School Teacher
- 62.322 Seminar in Learning Experiences with Young Children
- 62.376 Language Experiences for Children
- 62.389 Individualized Instruction Activities in the Elementary School
- 62.400 Workshop in Teaching Mathematics in Early Childhood and Elementary Education
- 62.410 Workshop in Preschool Education

62.480 A Study of Discipline in the Elementary School

79.312 Internship in Education (a maximum of 3 semester hours may be earned)

An area of concentration is optional.

Internship or free electives if necessary to complete graduation requirements.

Dual Certification in Early Childhood and Elementary Education

Recommended General Education Courses

A total of 24 semester hours in General Education courses is prescribed for this dual certification program inclusive of 6 semester hours in mathematics, 3 semester hours in biology, 3 semester hours in physical science, and 12 semester hours in social science elected from three of the groupings listed in the section on General Education Requirements. This should include at least 6 semester hours in composition and 3 semester hours in literature.

Required Courses

These courses develop knowledge of the nature of the child, the nature of the school, the learning process, general methods of teaching, methods of teaching particular subjects, and to provide student teaching experience. A total of 65 semester hours in required courses is taken. None may be taken on a pass/fail basis.

60.201 Field Studies in Education I

60.204 Educational Computing and Technology

60.251 Psychological Foundations of Education

60.291 Principles of Teaching

60.301 Field Studies in Education II

60.311 Educational Measurements and Evaluation

60.375 Reading for the Socially Disadvantaged Child

60.393 Social Foundations of Education or 60.394 Education in an Urban Society

60.497 Teaching in Education: First Experience

60.498 Teaching in Education: Second Experience

62.121 Introduction to Early Childhood Education

62.302 Teaching Science in the Elementary School

62.310 Teaching Fine Arts in the Elementary School

62.322 Seminar in Learning Experiences with Young Children

62.371 Teaching Reading in the Elementary School

62.373 Diagnostic and Remedial Reading

62.390 Teaching Social Studies in the Elementary School

62.391 Teaching Language Arts in the Elementary School

62.398 Teaching Mathematics in the Elementary School

62.410 Workshop in Preschool Education (6 semester hours)

Elective Courses

A minimum of 9 semester hours is taken in elective courses. None of these courses may be taken on a pass/fail basis.

05.311 Methods and Materials in Elementary School Physical Education

05.320 Health and Safety in the Elementary School

20.351 Literature for Children

30.205 Children's Art

60.302 Research Literacy

- 62.304 Environmental Education for the Elementary School Teacher
- 62.376 Language Experiences for Children
- 62.389 Individualized Instruction Activities in the Elementary School
- 62.400 Workshop in Teaching Mathematics in Early Childhood and Elementary Education
- 62.480 A Study of Discipline in the Elementary School
- 70.256 The Gifted Child
- 79.312 Internship in Education (1 to 3 semester hours may be earned)

An area of concentration is optional.

No free electives are available for this program.

Secondary Education (7-12)

Recommended General Education Courses

Some courses which satisfy General Education requirements are included in the course listings for the individual areas of specialization under secondary education.

Required Courses

A total of 35 semester hours in required courses is taken for this major.

- 60.201 Field Studies in Education I (1 semester hour)
- 60.204 Education Computing and Technology
- 60.251 Psychological Foundations of Education
- 60.291 Principles of Teaching
- 60.301 Field Studies in Education II (1 semester hour)
- 60.311 Educational Measurements and Evaluation
- 60.393 Social Foundations of Education or 60.394 Education in an Urban Society
- 60.497 Teaching in Education: First Experience (6 semester hours)
- 60.498 Teaching in Education: Second Experience (6 semester hours)
- 65.351 to 65.358 an appropriate subject matter methods course
- 65.374 Teaching of Reading in Academic Subjects

Free Electives

If necessary to complete the minimum graduation requirements of 128 semester hours.

Areas of Specialization in Secondary Education

Each area of specialization develops scholarship basic to teaching the content subject. Course requirements are enumerated under the area of specialization.

Biology

Biological and Allied Health Sciences 50.110, 50.120, 50.233, 50.242, 50.271, 50.332, 50.351, 50.380; Chemistry 52.111, 52.112 or 52.118, 52.113, 52.230, 52.341; 9 semester hours of elective courses in biology including 3 semester hours in a field course; plus Mathematics 53.113 or 53.123, 53.141 or Psychology 48.160.

Chemistry

Chemistry 52.111 and 52.112 or 52.118; plus 52.113, 52.221, 52.231, 52.232, 52.251, 52.341, 52.361, 52.362, 52.481; Physics: 54.211, 54.212; Mathematics: 53.125, 53.126,

53.225; Computer Science 56.110; Biological and Allied Health Sciences 50.110 or 50.120; Earth Science/Geology 51.101 and 51.111 or 51.102 and 51.112.

Communications/Media

English 20.302, 20.311, and 20.312; Theater Arts 26.102; Mass Communications 27.315; and one course in World Literature:

Group 1 Mass Communications 27.310, 27.320, 27.415;

Group 2 Two courses from 27.190, 27.230, 27.251, 27.261, 27.270;

Group 3 Three courses from 27.271, 27.334, 27.340, 27.352, 27.371, 27.435, 27.469, 27.482.

Communication/Speech

English 20.302, 20.311, 20.312; one course in World Literature; one course in Mass Communications; Speech Communication 25.104, 25.206 or 25.241, 25.205 or 25.215 or 25.315; Theater Arts 26.102 and one course from 26.211, 26.215, 26.316, 26.416; and four courses selected from the Code 25 course listing.

Note: 25.103 Public Speaking is required for secondary education majors and is listed among the General Education courses for communication. One semester of 25.108 Forensic Practicum also is required and; therefore, it may not be applied toward this requirement. Speech Communication majors must participate in the Bloomsburg University Forensic Society for a minimum of one semester under 25.108. A grade of pass/fail is issued.

Communication/Theater

English 20.302, 20.311, 20.312; one course in World Literature; one course in Mass Communications; Speech Communication 25.206 or 25.241; Theater Arts 26.102, 26.211, 26.215 or 26.316 or 26.416; plus four courses from the Code 26 course listing.

Note: 25.103 Public Speaking is required for secondary education majors and is listed among the General Education courses for communication. One semester of 26.108 Theater Practicum also is required and; therefore, it may not be applied toward this requirement. Theater/Communication majors must participate in the Bloomsburg University Players for a minimum of one semester under 26.108. A grade of pass/fail is issued.

Earth and Space Science

Earth Science/Geology 51.101, 51.102, 51.105, 51.111, 51.112, 51.255, 51.259; Chemistry 52.111, 52.112, 52.113; Physics 54.110, 54.111, 54.112; Computer Science 56.110; one course from Mathematics 53.112, 53.113, 53.123, 53.125, 53.126; three courses from Earth Science/Geology 51.261, 51.262, 51.320, 51.360, 51.369, 51.370, 51.470; and a maximum of 9 semester hours in marine science courses offered by the Marine Science Consortium and listed under Code 55 in the *Biology* section.

English

English 20.203 is required in place of 20.200, 20.201 and any W courses and also is required of those students who have taken 20.104. Required courses, totaling 30 semester hours, are: English 20.120, 20.224 or 20.225, 20.220 or 20.221, 20.222 or 20.223, 20.224 or 20.225; one of the preceding courses not previously taken or 20.121; one non-print media course from Mass Communications 27.315, 27.388, History 42.226, Sociology 45.400; and English 20.302, 20.311, 20.312, 20.352, 20.363. Elective courses account for 12 semester hours and are drawn from 300 or 400 level English courses, only one may be from 20.300 or 20.301 or 20.303.

French

French 10.203, 10.204, 10.205, 10.206, 10.207, 10.211, 10.325, 10.402, 10.422, 10.423; and English 20.311 or 20.411.

Note: A student exempted from a required course must substitute the course with an advanced elective in French. Students should also include a course in child psychology and anthropology in this curriculum.

General Science

Biological and Allied Health Sciences 50.110, 50.120; Chemistry 52.111 and 52.112 or 52.118, 52.113; Physics 54.111 or 54.211, 54.112 or 54.212; Earth Science/Geology 51.101, 51.102, 51.111, 51.112; Mathematics 53.123, 53.141 or 53.241; Philosophy 28.303; History 42.250; one additional science course, Physics 54.110 or any 200 level or above science course.

Mathematics

Mathematics 53.125, 53.126, 53.185, 53.225, 53.226, 53.231, 53.241, 53.310, 53.314, 53.360; Computer Science 56.121; and 9 semester hours in courses which must include at least one computer science course numbered 56.122 or higher and at least one mathematics course numbered 53.241 or higher.

Physics

Physics 54.211, 54.212, 54.302, 54.310, 54.314, 54.315, 54.318, 54.400; Biology 50.110 or 50.120; Chemistry 52.111, 52.112; Earth Science/Geology 51.101, 51.102; Mathematics 53.125, 53.126, 53.225, 53.322. Select an elective course in physics totaling 3 semester hours from: 54.301, 54.330, 54.421, 54.422, 54.450, 54.490, 54.491, and 54.493.

Spanish

Spanish 12.203, 12.204, 12.205, 12.206, 12.207, 12.211, 12.214, 12.325, 12.331, 12.402, 12.421; and English 20.311 or 20.411.

Note: A student exempted from a required course must substitute the course with an advanced elective in Spanish. Students also should include a course in child psychology and anthropology in their curriculum.

Comprehensive Social Studies**Anthropology**

Anthropology 46.200, 46.210, 46.220, 46.340, 46.390, and 46.440; Sociology 45.211; Economics 40.211, 40.212; History 42.112, 42.113, 42.121, 42.122, and 42.222; Geography 41.101, 41.102; Political Science 44.101, 44.120.

Economics

Anthropology 46.200; Sociology 45.211; Economics 40.211; 40.212, 40.311, 40.312, 40.422 or 40.423; plus 9 semester hours from 40.315, 40.316, 40.410, 40.413, 40.415, 40.424, 40.433, and 40.434; History 42.112, 42.113, 42.121, 42.122 or 42.222; Geography 41.101, 41.102; Political Science 44.101, 44.120

Geography

Anthropology 46.200; Sociology 45.211; Economics 40.211, 40.212; History 42.112, 42.113, 42.121, 42.122 or 42.222; Political Science 44.101, 44.120; Psychology 48.101;

Geography 41.101, 41.102, 41.105; plus 18 semester hours in geography; and 3 semester hours taken from economics, sociology, political science or history, or Psychology 48.210.

History

Anthropology 46.200; Economics 40.211, 40.212; Geography 41.101, 41.102; Political Science 44.101, 44.120; History 42.112, 42.113, 42.121, 42.122, 42.398; plus 9 semester hours from 42.141, 42.142, 42.143, 42.144, 42.452; 3 semester hours in history selected from 42.372, 42.379, 42.381, 42.383, 42.385, 42.392; and 3 semester hours in history selected from 42.133, 42.319, 42.320, 42.326, 42.327, 42.328.

Philosophy

Anthropology 46.200; Sociology 45.211; Economics 40.211, 40.212; History 42.112, 42.113, 42.121; Geography 41.101, 41.102; Political Science 44.101, 44.120; Philosophy 28.111, 28.212, 28.220, 28.221, 28.224 or 28.351; plus one elective course from the Code 28 listing.

Political Science

Anthropology 46.200; Sociology 45.211; Economics 40.211, 40.212; History 42.112, 42.113, 42.121 or 42.122; Geography 41.101, 41.102; Political Science 44.101, 44.120, 44.160, 44.210, 44.280, and three courses selected from 44.207, 44.363, 44.366, 44.376, 44.440, 44.448, 44.452, and 44.487.

Note: 44.207 can be used to satisfy the values requirement in General Education.

Psychology

Anthropology 46.200; Sociology 45.211; Economics 40.211, 40.212; History 42.112, 42.113, 42.121, 42.122, 42.222; Geography 41.101, 41.102; Political Science 44.101, 44.120; Psychology 48.101, 48.160, 48.251, 48.281, 48.451, 48.476, plus additional courses in psychology totaling 6 semester hours.

Sociology

Anthropology 46.200; Economics 40.211, 40.212; History 42.112, 42.113, 42.121, 42.122, 42.222; Geography 41.101, 41.102; Political Science 44.101, 44.120; Sociology 45.211, 45.213, 45.133 or 45.236, 45.216 or 45.462, 45.231 or 45.318; and 6 semester hours taken from the preceding sociology courses not previously taken.

EDUCATIONAL FOUNDATIONS (Code 60)

60.201 Field Studies in Education I 1 semester hour

Field trips to observe various teaching-learning situations. Students required to develop competence in operating all audiovisual equipment. On-campus seminars by arrangement with the instructor.

Prerequisite: 30 semester hours

60.204 Educational Computing and Technology

3 semester hours

Introduction to computer technology and the school setting that utilizes computers.

60.251 Psychological Foundations of Education

3 semester hours

Reviews psychological foundations of education, individual differences, learning theories applied to a classroom situation, physical and mental growth, mental hygiene, and personality development.

60.291 Principles of Teaching

3 semester hours

Designed as a competency-based course enabling the student to develop an awareness of the teaching process as it sequentially develops. Various instructional techniques, methodologies, and approaches explored. Topics include: specifying instructional/behavioral objectives, sequencing learning activities, applying the various taxonomies, conducting micro-teaching, discipline strategies, questioning techniques, and mastery teaching. Class term project includes unit lesson plan, and evaluative instrument construction.

Prerequisites: 60.201, 60.251

60.301 Field Studies in Education II

1 semester hour

Active involvement in a school setting two to three hours per week for approximately 10 weeks. Remaining time spent in campus class seminars by arrangement with instructor.

Prerequisite: 60 semester hours

60.302 Research Literacy

3 semester hours

Provides an introduction to research methods and techniques. Gives the student the basic understanding to be a better consumer of research, to be more aware of the value of research, and to be able to carry out beginning-level research projects.

60.311 Educational Measurements and Evaluation

3 semester hours

Reviews principles of evaluation; grading; representative standardized tests; vocabulary of measurement, test construction, and interpretation; informal and formal measurement in the cognitive, effective, and psychomotor areas.

Prerequisite: 45 semester hours

60.375 Reading for the Socially Disadvantaged Child

3 semester hours

Addresses methods and materials for the instruction of the disadvantaged child (K-

12). Presents techniques and theories as they may be applied to help the socially disadvantaged child function more adequately in the school environment.

Prerequisite: 45 semester hours

60.393 Social Foundations of Education

3 semester hours

Reviews social processes underlying education, current social forces, the place of the school in American culture, impact of social stratification, and role of the teacher in a period of rapid social change.

Prerequisite: 45 semester hours

60.394 Education in an Urban Society

3 semester hours

Studies the formal educational settings that serve areas in the United States with high population densities and the social factors that influence education in these settings. Fulfills the social foundations requirements for certification.

60.431 Independent Study

1-3 semester hours

Requires consent of the department chairperson to schedule.

60.441 Workshop in Education

60.442/60.443

1-6 semester hours

Studies selected areas of education including research by individual students in a special teaching field.

60.451 Pupil Personnel Services in the Public School

3 semester hours

A comprehensive view of pupil personnel services in the elementary and secondary schools; school attendance, school health programs, pupil transportation, psychological services, and guidance services.

60.497 Teaching in Education: First Experience

6 semester hours

Provides opportunities for direct participating experiences. Places students in class-

rooms with public or private school teachers. The student's major determines their assignment: K-6—one experience in a primary level and one experience in an intermediate level of a public school; N-K-3—one experience in a preschool situation and one in a primary level of a public school or two experiences in a primary level of a public school.

60.498 Teaching in Education:

Second Experience

6 semester hours

The secondary student teaching assignment is determined by the student's area of specialization.

EARLY CHILDHOOD and ELEMENTARY EDUCATION (Code 62)

62.121 Introduction to Early Childhood Education

3 semester hours

Examines the historical and philosophical foundations of early childhood education. Analyzes current trends and practices for teaching children from birth to age 6.

62.302 Teaching Science in the Elementary School

3 semester hours

Emphasizes the major methods and materials used in elementary school science.

Prerequisites: 3 semester hours in biology and 3 semester hours in physical science

62.304 Environmental Education in the Elementary School

3 semester hours

Provides learning experiences for the elementary school level in environmental education programs.

62.310 Teaching Fine Arts in the Elementary School

3 semester hours

Provides competencies in the selection and implementation of materials and procedures

for teaching literary, visual, and performing arts to elementary school children. Emphasizes comprehension and integration of fine arts into all areas of the school curriculum.

62.322 Seminar in Learning Experiences with Young Children

3 semester hours

Outlines physical, mental, emotional, and social levels of children from birth to age 8, with attention to environmental factors that foster child growth. Examines preschool and kindergarten programs to meet the needs of this age child and to provide the background of experience needed for later ventures into reading, art, arithmetic, science, social studies, music, literature, physical education, and health.

Prerequisites: Psychology 48.101, 48.211

62.371 Teaching Reading in the Elementary School

3 semester hours

Examines developmental reading from readiness through sixth grade.

Prerequisite: 45 semester hours

62.373 Diagnostic and Remedial Reading

3 semester hours

Presents diagnostic and remedial procedures emphasizing both standardized and informal techniques.

Prerequisite: 62.371

62.376 Language Experiences for Children

3 semester hours

Explores the language development of children and factors that influence skill in effective communication development from nursery school through sixth grade. Provides a background for students in language arts and literature for children.

62.389 Individualized Instruction Activities in the Elementary School

3 semester hours

Emphasizes procedures for helping individuals learn the informal school concept and re-

arranging the elementary classroom into an efficient and effective learning area with emphasis on a language arts center, mathematics center, science centers, and social studies centers.

62.390 Teaching Social Studies in the Elementary School

3 semester hours

Emphasizes methods and materials appropriate for teaching elementary school social studies in contemporary society.

62.391 Teaching Language Arts in the Elementary School

3 semester hours

Emphasizes methods and materials designed to help elementary school children develop communication skills for today's complex society. Includes all areas of a modern language arts curriculum.

62.398 Teaching Mathematics in the Elementary School

3 semester hours

Outlines mathematical methods, materials, understandings, and attitudes essential in the teaching of contemporary programs in the elementary school.

Prerequisite: 6 semester hours in mathematics

62.400 Workshop in Teaching Mathematics in Early Childhood and Elementary Education

1-6 semester hours

Presents a workshop format to provide individual or group study of problems concerned with teaching mathematics at early childhood and elementary levels.

62.410 Workshop in Preschool Education

1-6 semester hours

Provides teachers with a workshop experience in infant daycare centers and nursery schools. Provides methods and materials that teachers can use and construct in their centers and classrooms. Examines theories of Bruner, Piaget, Froebel, and Montessori.

62.431 Independent Study in Elementary Education

3 semester hours

Individual projects in education. Requires consent of the department chairperson.

62.480 A Study in Discipline in the Elementary School

3 semester hours

Emphasizes techniques designed to modify behavior in a positive way.

**SECONDARY EDUCATION
(Code 65)**

65.351 Teaching Communication in the Secondary School

Fall 3 semester hours

Prerequisites: 60.201, 60.251, 60.291, 60.301, 60.393; Junior standing in an area of concentration in Secondary Education

65.352 Teaching Mathematics in the Secondary School

Spring 3 semester hours

Prerequisites: 60.201, 60.251, 60.291, 60.301, 60.393; Junior standing in an area of concentration in Secondary Education

65.353 Teaching Science in the Secondary School

Fall 3 semester hours

Prerequisites: 60.201, 60.251, 60.291, 60.301, 60.393; Junior standing in an area of concentration in Secondary Education

65.355 Teaching Social Studies in the Secondary School

Fall 3 semester hours

Prerequisites: 60.201, 60.251, 60.291, 60.301, 60.393; Junior standing in an area of concentration in Secondary Education

65.358 Teaching Foreign Language in the Secondary School

Spring 3 semester hours

Prerequisites: 60.201, 60.251, 60.291, 60.301, 60.393; Junior standing in an area of concentration in Secondary Education

65.374 Teaching Reading in Academic Subjects

3 semester hours

Understanding techniques for developing reading skills applicable to the secondary school. Emphasis on readiness, comprehension, silent reading, and oral reading through secondary school academic subjects.

Prerequisite: 45 semester hours

65.411 Seminar in Secondary Education

3 semester hours

Activities center around concerns and problems encountered in secondary education. The range of activities is determined by individual need and by levels of professional competency including diagnosis, mutual development of objectives, and self evaluation.

65.431 Independent Study in Secondary Education

1-3 semester hours

Requires consent of department chairperson.

**PROFESSIONAL STUDIES
(Code 79)**

79.312 Internship in Education

1-15 semester hours

A work study program in an education-related setting applicable to fulfilling free electives in teacher education degree programs.

Faculty Credentials

RAYMOND E. BABINEAU

B.A., M.A., Montclair State College; Ed.D., Temple University

NEIL L. BROWN

B.S., Kutztown State College; M.Ed., Lehigh University; Ed.D., Temple University

CHRIS A. CHERRINGTON

B.S., University of Oklahoma; M.Ed., Ph.D., University of Virginia

ROBERT L. CLARKE

B.A., King's College; M.A., Seton Hall University; Ed.D., University of Pennsylvania

HENRY D. DOBSON

B.S., Bloomsburg University; M.S., Syracuse University; Ph.D., The Pennsylvania State University

GARY J. DOBY

B.S., M.S., Ph.D., State University of New York College at Buffalo

M. HUSSEIN FERESHTEH

B.A., Teacher University of Tehran; M.P.A., University of Hartford; Ph.D., The University of Connecticut

BONITA B. FRANKS

B.S., M.S., Central Connecticut State University; Ph.D., The Pennsylvania State University

NANCY G. GILGANNON

B.S., Bloomsburg State College; M.S., Marywood College; D.Ed., The Pennsylvania State University

MARY G. HARRIS

B.A., Macalester College; M.A., California Lutheran College; Ed.D., University of Southern California

CHARLOTTE M. HESS

B.S., M.Ed., Bloomsburg State College; Ph.D., The Pennsylvania State University

JOHN R. HRANITZ

B.S., M.Ed., Ed.D., Indiana University of Pennsylvania

MARTIN M. KELLER

B.S., Indiana State College; M.Ed., University of Pittsburgh

GORMAN L. MILLER

B.A., LaVerne College; M.S., Indiana University; Ed.D., Ball State University

FRANK MISITI

B.S., Mansfield State College; M.Ed., Ph.D., The Pennsylvania State University

WILLIAM S. O'BRUBA

B.S., California State College; M.Ed., Duquesne University; Ed.D., Indiana University of Pennsylvania

GILDA M. ORAN

B.A., University of Toronto; M.Ed., Ed.D., University of Miami

EDWARD J. POOSTAY

B.S., Temple University; M.Ed., The Pennsylvania State University; Ph.D., University of Georgia

DONALD L. PRATT

B.S., Utica College of Syracuse University; M.Ed., St. Lawrence University; Ph.D., University of South Florida

ROBERT L. REMALEY JR.

B.S., Millersville State College; Ed.M., Temple University

LORRAINE A. SHANOSKI

B.S., M.Ed., Northeastern University; Ed.D., Indiana University of Pennsylvania

R. EDWARD WARDEN

B.S., Millersville State College; M.A., Villanova University

DAVID E. WASHBURN

B.A., M.Ed., Ph.D., University of Arizona; Post-doctoral Certificate in Multicultural Education, University of Miami

MARY ALICE WHEELER

B.A., University of Denver; M.S., Georgetown University; Ph.D., University of Pennsylvania

BONNIE L. WILLIAMS

B.S., M.Ed., Bloomsburg University; Ed.D., Temple University

Engineering and Liberal Arts

College of Arts and Sciences

Program Coordinator

Gunther L. Lange, assistant professor, Department of Physics

Advisory Committee

Stephen D. Beck, professor, Department of Mathematics and Computer Science

Marlana Blackburn, assistant professor, Department of Chemistry

Norman M. Gillmeister, associate professor, Department of Geography and Earth Science

Gunther L. Lange, assistant professor, Department of Physics

Degree Program

A 3/2 cooperative dual-degree program: Bachelor of Arts in Physics, Chemistry, or Mathematics from Bloomsburg University and Bachelor of Science in an engineering discipline from The Pennsylvania State University or Wilkes University

Goals and Objectives

The engineering and liberal arts program provides the opportunity for students to pursue a rewarding and challenging career in the high-demand field of engineering without forgoing the broader scope of a Bloomsburg University educational experience. This cooperative program of study leads to two baccalaureate degrees, one in liberal arts and sciences awarded by Bloomsburg University and one in an area of engineering from either The Pennsylvania State University or Wilkes University. Candidates for these degrees spend three years at Bloomsburg University, where they study science, mathematics, pre-engineering, and a broad variety of liberal arts subjects, followed by two years at the University Park campus of Penn State or at Wilkes University in Wilkes-Barre, where they study engineering disciplines.

Students may pursue an engineering education in any of the following areas:

Aerospace Engineering	Penn State
Agricultural Engineering	Penn State
Ceramic Science and Engineering	Penn State
Chemical Engineering	Penn State
Civil Engineering	Penn State
Electrical Engineering	Wilkes University or Penn State
Engineering Management in:	
• Electrical Engineering	Wilkes University
• Environmental Engineering	Wilkes University
• Materials Engineering	Wilkes University
Engineering Science	Penn State
Environmental Engineering	Wilkes University or Penn State
Industrial Engineering	Penn State
Materials Engineering	Wilkes University
Mechanical Engineering	Penn State
Metallurgy	Penn State
Mining Engineering	Penn State
Nuclear Engineering	Penn State
Petroleum and Natural	Penn State
Gas Engineering	

Required Courses

All students in this program must complete the following 48 (or 45) semester hours at Bloomsburg University plus additional courses specific to their field of interest in engineering.

Physics (11 semester hours)

54.211 General Physics I, 54.212 General Physics II, 54.310 Modern Atomic Physics

Chemistry (8 or 5 semester hours)

52.111 General Chemistry I, 52.112 General Chemistry II (or 52.118 University Chemistry in place of 52.111, 52.112, if criteria met), 52.113 Chemistry Laboratory

Mathematics (18 semester hours)

53.125 Analysis I, 53.126 Analysis II, 53.225 Analysis III, 53.226 Analysis IV, 53.322 Differential Equations, 53.314 Linear Algebra

Computer Science (3 semester hours)

56.210 Algorithmic Processes

Pre-Engineering (8 semester hours)

Only offered alternate years, 54.301 Mechanics: Statics, 54.302 Mechanics: Dynamics, 51.173 Introductory Engineering Graphics, 51.174 Engineering Design Graphics

Program-Specific Course Requirements

- Candidates planning to pursue an engineering degree at Wilkes University must take the following courses: Physics, 54.315 Electronics (4 semester hours) or 54.400 Advanced Physics Laboratory (2 semester hours); Economics, 40.211 Principles of Economics I (3 semester hours), 40.212 Principles of Economics II (3 semester hours). One of the following: 09.213 Science, Technology, Human Values (3 semester hours), 41.105 Environmental Issues and Choices (3 semester hours) or 44.207 Ethics, Politics, and Public Policy (3 semester hours)

- Candidates planning to pursue an engineering degree at Penn State must take 25.103 Public Speaking (3 semester hours)

- Candidates in certain engineering programs also must meet additional course requirements. These course requirements are as follows:

Aerospace, Electrical or Nuclear Engineering

53.491 or 53.492 in Partial Differential Equations (3 semester hours)

Chemical or Materials Engineering

52.231 Organic Chemistry I (4 semester hours)

52.232 Organic Chemistry I (4 semester hours)

Chemical engineering students are excused from 54.302 Mechanics: Dynamics

Environmental Engineering

52.231 Organic Chemistry I (4 semester hours)

52.232 Organic Chemistry II (4 semester hours)

or 50.173 Anatomy and Physiology I (4 semester hours)

50.174 Anatomy and Physiology II (4 semester hours)

Engineering Management

53.141 Introduction to Statistics (3 semester hours)
or 53.241 Probability and Statistics (3 semester hours)

52.231 Organic Chemistry I (4 semester hours)

52.232 Organic Chemistry II (4 semester hours)

Mining Engineering

51.101 Physical Geology (3 semester hours)

51.261 Mineralogy (4 semester hours)

Petroleum and Natural Gas Engineering

51.101 Physical Geology (3 semester hours)

51.102 Historical Geology (3 semester hours)

Additional Course Requirements

In addition to the above requirements, all candidates must satisfy the General Education Requirements of Bloomsburg University and the specific requirements for a major (usually in the sciences or mathematics). Students should consult the program coordinator each semester as they plan their schedules to insure that all requirements are met. With careful planning, it is possible to satisfy the General Education Requirements of the university and the engineering college simultaneously.

Required Academic Performance

Students wishing to complete their studies at The Pennsylvania State University must maintain a quality point average (QPA) of 3.0 overall and a 2.75 in required core courses. In a few majors, a 2.5 overall average may be sufficient for transfer, and these are subject to change from year to year.

For transfer to Wilkes University, students must maintain a QPA of 2.5 overall. Transfer candidates to the environmental engineering, materials engineering, and engineering management programs are required to have a 2.65 QPA in science, mathematics, and pre-engineering courses, while candidates to the electrical engineering program must maintain a 2.75 average in these technical courses.

Admission Procedures

To enter the program, individuals must apply and be accepted for admission to Bloomsburg University. Applicants for admission who previously were registered as degree candidates and established an academic record as degree candidates at The Pennsylvania State University prior to entering this cooperative program at Bloomsburg University will be considered readmission candidates and must meet additional enrollment criteria for readmission to The Pennsylvania State University.

Students should indicate a desire to follow this program of study at the time of admission to Bloomsburg University in order to insure sufficient time to complete all of the required courses. Notification should be made to the director of academic advisement who, in turn, will notify the coordinator of the Engineering and Liberal Arts Program. The coordinator will assign each student an academic adviser who is a member of the Pre-Engineering Advisory Committee. Students should consult both their advisers and the coordinator for assistance in schedule planning.

At the end of the second year of study, students become candidates for transfer if they have maintained a sufficiently high QPA.

Transferring to The Pennsylvania State University

In September of the third year of study, students should apply for transfer to The Pennsylvania State University. All correspondence and the application should clearly indicate that the transfer is requested under a cooperative 3-2 program. Nov. 30 is the application deadline. Successful applicants will be offered provisional admission to Penn State for the following fall semester.

Completed applications should be supported by the following documentation:

- An official transcript of the applicant's final secondary school grades;
- Two official transcripts of the applicant's Bloomsburg University academic record including all grades earned;
- A schedule of all courses to be taken in the third year;
- A letter of recommendation from the Pre-Engineering Advisory Committee.

At the end of the third year of study, two copies of the student's official Bloomsburg University transcript should be forwarded to the Admissions Office of The Pennsylvania State University. Students who have maintained the required quality point average, who have completed all required courses, and who are recommended by the Pre-Engineering Advisory Committee, will be offered permanent admission to Penn State.

Transferring to Wilkes University

At the beginning of the third year of study, students should apply for transfer to Wilkes University through the coordinator of the program at Bloomsburg University. Applications are available in the coordinator's office.

Completed applications should be supported by the following credentials:

- An official transcript of the applicant's final secondary school grades
- An official Bloomsburg University transcript of the applicant's grades including all grades earned during the first two years
- A schedule of all courses to be taken during the third year

The Pre-Engineering Advisory Committee reviews these credentials and submits a recommendation to the dean of admissions of Wilkes University. Successful applicants will be offered provisional admission to Wilkes University for the following summer.

At the end of the third year, a copy of the student's official Bloomsburg University transcript should be submitted to the coordinator. Students who have maintained the required quality point average, who have completed all the required courses, and who are recommended by the Pre-Engineering Advisory Committee, will be offered permanent admission to Wilkes University.

Receiving a Bloomsburg University Degree

In January of the student's final year in engineering college, the student should send an official transcript of all courses taken to the registrar at Bloomsburg University. A letter indicating intent to graduate should be sent to the coordinator of the Engineering and Liberal Arts Program so that course evaluations can be made. The registrar, upon evaluation of the transcript, will arrange for a diploma to be awarded at the university's May graduation.

Department of English

College of Arts and Sciences

Chairperson

Susan Rusinko

Professors

William M. Baillie

Lawrence B. Fuller

Ervene F. Gully

Susan Rusinko

Gerald H. Strauss, assistant chairperson

Associate Professors

M. Dale Anderson

Mary G. Bernath, part-time

William D. Eisenberg

Ronald A. Ferdock

Nancy E. Gill

Francis J. Peters

Glenn E. Sadler

Riley B. Smith

Assistant Professors

Mary Jo Arn

M. A. Rafey Habib

S. Michael McCully

Robert G. Meeker

Edwin P. Moses, part-time

Marion B. Petrillo, part-time

Michael Pressler, 1991-92

Terrance C. Riley

Danny L. Robinson

Louise M. Stone, part-time

Instructors

Robert Bomboy, part-time 1991-92

Richard Close, part-time 1991-92

Margaret Quintanar, part-time, 1991-92

Director, University Writing Center

Terrance C. Riley

Degree Program

Bachelor of Arts in English

A total of 45 semester hours is required for a major in English.

Goals and Objectives

The department offers a program leading to a Bachelor of Arts in English and provides the English courses for Bachelor of Science in Education in two areas of concentration, English and Communication, which culminate in certification for teaching in secondary schools.

The department also offers a minor in English for students who want to add its benefits to their undergraduate programs of study.

The discipline of English opens doors to personal satisfaction and many kinds of careers. With its emphasis on writing and literature, an English degree helps students develop communication skills and gain a broad knowledge of human nature and society. These qualities are needed in daily experience as well as in business, education, medicine, law, and government service. The English major is an especially good background for careers at the managerial and executive levels. Industry and commerce, according to *The New York Times*, "require creative and sometimes unorthodox approaches" and managers able "to be flexible, critical and capable of continuous learning: managers with the skills to anticipate change and not be surprised." These qualities, the article continues, are "the attributes we have come to associate with a liberal arts education."

Besides offering business career advantages to students, the English programs are equally valuable as preparation for graduate study for both master's and doctoral degrees.

Required Courses

Required courses include: 20.120, 20.203, 20.220, 20.221, 20.222, 20.223, 20.224 or 20.225, 20.363, 20.493. One course from 20.301, 20.302, 20.303; 20.311, 20.312, 20.411, 20.413; 20.488, 20.489, 20.490. One course from 20.341, 20.342, 20.343, 20.344, 20.345, 20.360, 20.370, 20.381, 20.482. Three 300-level or 400-level English Department literature courses.

Minor in English

20.120 World Literature I, 20.221 British Writers II, 20.223 American Literature II, 20.363 Shakespeare, and two English courses at the 300-400 level, excluding courses not applicable to a major in English.

ENGLISH
(Code 20)

The student must take English 20.101; and one of 20.200, 20.201, 20.203; if selected on basis of admission criteria, the student takes English 20.104 only.

20.101 Composition I

3 semester hours

Study and practice of the principles of composition to improve proficiency in writing skills.

20.104 Honors Composition

3 semester hours

Similar to 20.101 but offered only to freshmen exempted from 20.101 on the basis of admission criteria. Students who successfully complete 20.104 are exempt from 20.200 and 20.201.

20.111 Language and Social Interaction

3 semester hours

A study of varieties of language, verbal and non-verbal, and their communicative and social functions. Not applicable toward a major in English.

20.112 Practical Grammar and Usage

3 semester hours

A study of grammatical forms, rules, and accepted usage of current written standard English, with practical application to develop skills toward the improvement of diction, sentence structure, and style. Not applicable toward a major in English.

20.120 World Literature I

3 semester hours

A survey of important literary works of the Western world from the Old Testament and classical Greece through the Renaissance.

20.121 World Literature II

3 semester hours

A survey of important literary works of the Western world from the 17th century to the present.

20.131 The Bible as Literature

3 semester hours

Examination of literary types found in the Old and New Testaments and their profound influence on Western culture. Not applicable toward a major in English.

20.151 Introduction to Literature

3 semester hours

A basic course exploring literature as experience and the techniques by which it communicates in short story, novel, drama, and poem. Not applicable toward a major in English.

20.153 Folklore

3 semester hours

A survey of such traditional forms of oral literature as epic, ballad, folksong, folktale, and superstitions examined in terms of origin, transmission, and influence on literature. Not applicable toward a major in English.

20.200 Writing Proficiency Examination

3 semester hours

A series of compositions written under examination conditions on topics provided by the staff. Faculty consultations and a writing laboratory are available for students in the course. Not for English majors.
Prerequisite: 20.101

20.201 Composition II

3 semester hours

An alternative to English 200, Writing Proficiency Examination. Includes a series of themes, a long paper, and practice in library research to reinforce and expand skills ac-

quired in Composition I. Not for English majors.

Prerequisite: 20.101

20.203 Approaches to Literary Study
3 semester hours

An introduction to writing about literature; a consideration of research techniques and types of literary analysis. Satisfies requirement for Composition II. Required for all English majors, Arts and Sciences and Secondary/English

Prerequisite: 20.101 or 20.104; open to all students

20.220 British Writers I
3 semester hours

A survey of selections from Chaucer through Boswell and Johnson.

20.221 British Writers II
3 semester hours

A survey of selections from Wordsworth through Eliot.

20.222 American Literature I
3 semester hours

A survey of American literature from its colonial beginnings through the Civil War with emphasis on the writers of the American Renaissance.

20.223 American Literature II
3 semester hours

A survey of American literature from the Civil War through the modern era.

20.224 Non-Western Literature I
3 semester hours

A survey of forms, themes, and social contexts of non-Western literature, based on representative samples from Arabic, Persian, and Indian writings.

20.225 Non-Western Literature II
3 semester hours

A survey of forms, themes and social contexts of non-Western literature, based on representative samples from Hebrew, Chinese, and African writings.

20.231 Literature and Society
3 semester hours

Readings to consider purposes, characteristics, issues, and values of specific areas—such as business, psychology, and science—from a humanistic perspective. Not applicable toward a major in English.

20.232 Popular Literature
/20.233 3 semester hours

Study of one type of popular literature, with examination of its forms, conventions, and ideas. Course content, determined by the instructor, varies. Possible topics include detective fiction, science fiction, literature of terror, and popular drama. Not applicable toward a major in English.

20.251 Literary Genres
3 semester hours

Literary form as a vehicle for expression of ideas.

20.253 Folklore of the American West
3 semester hours

A study of folklore genres, including legends, tall tales, ballads, and customs of Native Americans, English, French, and Spanish of the Trans-Mississippi West. Not applicable toward a major in English.

20.280 Poetry
3 semester hours

Exploration of the nature of poetry in terms of its aims, forms, and substance.

20.300 Writing Children's Literature
3 semester hours

Approaches to and practice in writing children's books for publication. Consideration of various literary types and techniques with discussion of field research in writing nonfiction, fiction, and poetry for children. Prerequisite: 20.351 or 20.352 or consent of the instructor

20.301 Creative Writing: Fiction
3 semester hours

Original creative work in fiction; critical

analysis by the instructor and the class in group discussion.

20.302 Advanced Composition

3 semester hours

Designed to develop in the student a greater mastery over the elements of writing. Attention is given to the problem of evaluating writing.

Prerequisite: 60 semester hours completed

20.303 Creative Writing: Poetry

3 semester hours

Lecture and discussion concerning the fundamental theory and techniques of poetry writing together with writing and evaluation of poems in a workshop situation.

Prerequisites: 20.280, 20.380 or consent of the instructor

20.306 Theory and Practice of Writing

3 semester hours

An introduction to new theories of writing and the teaching of writing including both study of and practice in the methods the theories require. Recommended for secondary education students in English but open to all students interested in advanced work in writing.

Prerequisite: 45 semester hours completed

20.311 Structure of English

3 semester hours

A study of the sound patterns, morphology, word formation processes, semantics, and syntax of modern English, and of children's acquisition of their first language.

Prerequisite: 45 semester hours completed

20.312 History of the English Language

3 semester hours

A survey of the major developments in the English language from its Anglo-Saxon origins to the present.

Prerequisite: 60 semester hours completed or consent of the instructor

20.331 Ideas in Literature

3 semester hours

An examination of such recurrent concepts in literature as freedom and fate, good and evil, and social and psychological influences.

20.332 Russian Literature in Translation

3 semester hours

An introduction to Russian literature from Pushkin to the present. Readings in English of novels, poems, plays, and short stories.

20.333 Later American Prose

3 semester hours

A study of prose work of American literature, both fiction and nonfiction, from the late 19th century to the present, emphasizing literary merit and social significance. Includes such writers as Riis, Steffens, Sinclair, Allen, E.B.White, Thurber, Baldwin, Ellison, Steinbeck, Barrio, and Momaday.

20.334 Major American Writers

3 semester hours

A study of major American writers instrumental in shaping and interpreting the American experience. Writers vary with each presentation of the course.

20.336 Major British Writers

20.337/20.338 3 semester hours

A study of major British writers instrumental in shaping and interpreting British literature and the British mind and experience. Writers vary with each presentation of the course.

20.341 Early and Middle English Literature

3 semester hours

A study of *Beowulf* and other English works in translation and medieval chronicles and romances including *Sir Gawain and the Green Knight* and *Le Morte d'Arthur*.

20.342 16th Century Literature

3 semester hours

The nondramatic prose and verse of the period emphasizing the last quarter of the century. Includes the humanists: Erasmus, More,

Castiglione, Elyot, Ascham; Renaissance forms and ideas in Lyly, Sidney, Spenser, Daniel, Drayton, Shakespeare, Marlowe, Chapman, Greene, and others.

20.343 17th Century Literature

3 semester hours

Poetry and prose beginning with Jonson. The rival traditions of Donne and Jonson in such poets as Herbert, Vaughan, Quarles, Cowley, Herrick, and Marvell. Principal prose writers: Burton, Browne, Taylor, Fuller, Baxter, Bunyan, and Dryden.

20.344 18th Century Literature

3 semester hours

Literature of the Augustan Age in England: Addison and Steele, Swift, Pope, Boswell, and Johnson; forerunners of the Romantic Revival; beginnings of the British novel; the plays of Addison, Steele, Sheridan, and Goldsmith.

20.345 19th Century Literature

3 semester hours

Literature of the Romantic and Victorian periods in England, including such writers as Wordsworth, Keats, Hazlitt, Lamb, Brown- ing, Tennyson, and Arnold.

20.351 Literature for Children

3 semester hours

Studies the development of various types of literature for children. Consideration of criteria for selecting literature for the classroom and the library; suggestions for presenting literary works in an elementary classroom. Not applicable toward a major in English. Prerequisite: 60 semester hours completed

20.352 Literature for Young Adults

3 semester hours

Critical discussion of literature aimed at young adult readers or popular with them. Works by writers such as S. E. Hinton, Robert Cormier, Judy Blume, and Paul Zindel. Consideration of literary works for the secondary classroom with attention to the topic of censorship. Not applicable toward a major in

English.

Prerequisite: 60 semester hours completed

20.360 Early English Drama

3 semester hours

Early native drama including miracle and mystery plays, morality plays, and interludes. Elizabethan dramatists: Heywood, Marlowe, Kyd, Jonson, Webster, Middleton, and Ford.

20.362 Modern Drama

3 semester hours

Major continental, English, and American plays from Ibsen to the present with emphasis on contemporary attitudes, themes, and style, as contrasted with those of the traditional dramatists.

20.363 Shakespeare

3 semester hours

Study of Shakespeare's plays with emphasis on Shakespeare as poet and playwright and with attention to conditions of the Elizabethan theater and history of the Shakespearean text.

20.370 The English Novel

3 semester hours

History and development of the novel in England from its inception to the end of the 19th century.

20.372 Modern Novel

3 semester hours

A study of major modern novels, with emphasis on developments in fictional art, particularly realism, naturalism, impressionism, and expressionism. Begins with early realists and moves through the writings of Mann, Proust, Lawrence, Kafka, Woolf, Joyce, and one or two others of the instructor's choice.

20.373 American Novel

3 semester hours

The development of the novel in America from its beginning to the present with an emphasis on form, theme, and literary and social movements and some attention to parallel developments in the European novel.

20.374 Short Story

3 semester hours

A study of the history, characteristics, and techniques of the modern short story through reading and analyzing representative samples of the genre.

20.380 Modern Poetry

3 semester hours

An introduction to contemporary poetic movements through study of writers such as Emily Dickinson, Walt Whitman, W. B. Yeats, T. S. Eliot, William Carlos Williams, Robert Frost, and Robert Lowell.

20.381 Chaucer

3 semester hours

Chaucer's major poetry with practice in speaking and reading Middle English and an emphasis on Chaucer's literary achievement.

20.400 Literary Study Abroad

3 semester hours

A travel-study course for English majors and non-majors, concentrating on a writer or literary problem in the perspective of their disciplines. Includes meetings with writers and scholars and use of native sources and resources. Area of emphasis determined by the instructor.

20.411 Modern Linguistic Theory

3 semester hours

A survey of modern developments in linguistics with special attention to transformational-generative grammar; applications of theory to patterns of language acquisition; current adaptations of theory for presentation as grammar in schools.

Prerequisite: 60 semester hours completed

20.413 Language in American Society

3 semester hours

A review of social, political, and philosophical perspectives on the historical development and current status of English and other languages in American society.

Prerequisite: 60 semester hours completed

20.440 Independent Study in English

3-6 semester hours

Prerequisite: 60 semester hours completed

20.482 Milton

3 semester hours

The poetry and prose of John Milton.

20.488 Seminar

20.489/20.490

3 semester hours

Independent study with an opportunity to explore a literary subject not offered in regularly scheduled courses. Content, determined by the instructor.

Prerequisite: 60 semester hours completed

20.492 Literary Criticism

3 semester hours

Examination of major critics from Aristotle to the present, emphasizing the application of critical principles to primary genres of drama, poetry, and novel.

Prerequisite: 60 semester hours completed

20.493 Bibliography and Literary Research

3 semester hours

Methods of literary scholarship and study of book production with practice in preparing specialized bibliographies and planning scholarly projects.

Prerequisite: 60 semester hours completed

20.494 Rhetoric of Literature

3 semester hours

A study of major rhetorical devices used by writers: the nature and range of rhetorical designs; definitions of concepts; identification of these language devices in drama, prose, and poetry; discussion of effects on the reading audience.

Prerequisite: 60 semester hours completed

20.497 English Internship

1-6 semester hours

A work-study program. Not applicable toward major or minor in English. Open to English majors; others by departmental consent.

Prerequisite: 60 semester hours completed

Faculty Credentials

M. DALE ANDERSON

B.S.L., Nebraska Christian College; M.A., Fort Hays Kansas State College

MARY JO ARN

B.A., Westminster College; Ph.D., State University of New York at Binghamton

WILLIAM M. BAILLIE

B.A., Ball State Teachers College; M.A., Ph.D., University of Chicago

MARY G. BERNATH

B.A., M.A., Ph.D., University of Pittsburgh

ROBERT BOMBOY

A.B., Wilkes College; M.S., Columbia University

RICHARD CLOSE

B.A., Miami University, Oxford, Ohio; Ph.D., St. Louis University

WILLIAM D. EISENBERG

B.A., University of Delaware; M.A., Lehigh University

RONALD A. FERDOCK

A.B., St. Vincent College; M.A., The Pennsylvania State University

LAWRENCE B. FULLER

A.B., Dartmouth College; M.A., Columbia University; M.A., The Pennsylvania State University; Ph.D., The Johns Hopkins University

NANCY E. GILL

B.A., M.A., Washington State University; Ph.D., The Pennsylvania State University

ERVENE F. GULLEY

A.B., Bucknell University; M.A., Ph.D., Lehigh University

M. A. RAFEY HABIB

B.A., University of Essex; D.Phil., University of Oxford

S. MICHAEL MCCULLY

B.A., Hendrix College; M.A., Western Illinois University; Ph.D., University of Iowa

ROBERT G. MEEKER

A.B., Lafayette College; M.A., University of Scranton; Ph.D., Lehigh University

EDWIN P. MOSES

B.A., Kansas State University; Ph.D., State University of New York at Binghamton

MARION B. PETRILLO

B.A., Wilkes College; M.A., Duquesne University; Ph.D., State University of New York at Binghamton

MICHAEL PRESSLER

B.A., University of Massachusetts; Ph.D., The University of Connecticut

FRANCIS J. PETERS

B.A., Belmont Abbey College; M.A., Seton Hall University; Ph.D., New York University

MARGARET QUINTANAR

B.A., Susquehanna; M.A. University of Pittsburgh

TERRANCE J. RILEY

B.A., M.A., Ph.D., University of Michigan

DANNY L. ROBINSON

B.A., Northern Arizona University; M.A., Purdue University; Ph.D., Duke University

SUSAN RUSINKO

B.A., Wheaton College; M.A., Ph.D., The Pennsylvania State University

GLENN E. SADLER

A.B., Wheaton College; M.A., University of California at Los Angeles; Ph.D., University of Aberdeen, Scotland

RILEY B. SMITH

B.A., Ph.D., The University of Texas, Austin

LOUISE M. STONE

B.A., M.A., University of Michigan

GERALD H. STRAUSS

A.B., University of Pennsylvania; M.A., Ed.D., Columbia University

Department of Finance and Business Law

College of Business

Chairperson

David G. Heskel

Professors

Barbara E. Behr

Bernard C. Dill

Bruce L. Rockwood

Associate Professors

Rajkumar Guttha

David G. Heskel

Karen J. Elwell

Lalana T. Siergiej

Degree Program

Bachelor of Science in Business Administration

A total of 63 semester hours is required for a major in business administration. This degree program offers specializations in accounting, business economics, finance, management information systems, management, and marketing.

Goals and Objectives

The curriculum in business administration develops specialized knowledge and skills applicable to entry into the business world and provides the opportunity to prepare for advanced studies in business. To achieve these aims, the curriculum is dedicated to those educational ideals that increase the student's understanding of business practices, develop specialized occupational skills, and enhance analytical and scholarly development. The business person's role and the place and purpose of the business firm in society are matters for constant study and evaluation. A concern for personal development in the attributes of intellectual discipline and ethical values is integrated into the general education and business courses.

Specialization in Finance

A total of 15 semester hours is required for a specialization in finance. Required courses include: Finance 96.323, 96.343, 96.454, and 6 semester hours from 96.333, 96.413, 96.423, 96.463, and 96.473.

Required Courses

Required courses include: Economics 40.211, 40.212, 40.246, and 40.346 or Mathematics 53.118; 53.123; Accounting 91.220 or 91.221 for Accounting and Computer and Information Science majors; 91.223; Computer and Information Systems 92.150; Management 93.344, 93.445, and 93.446; Finance 96.313; Marketing 97.310; and Business Law 98.331.

General Education Courses

English 20.101 and 20.201 are required as General Education courses for the six specializations in the business administration degree program.

Elective Courses

Select courses in business and economics to complete a minimum of 63 semester hours. Courses designated with a 91, 92, 93, 96, 97, 98 prefix are business courses and those with a 40 prefix are economics courses. Additional courses permitted as electives include: Speech Communication 25.307; History 42.223 (a substitute for 42.224 and 40.423), 42.472; and General Business 90.101, 90.241, 90.431, and 90.432.

Note: 90.101 will not be allowed for credit as a business elective once a student has completed 6 semester hours in business administration courses.

In selecting an elective, the student must have the proper prerequisites and avoid choosing courses below the level for which the student has already been prepared in the subject field.

Free Electives

Select free elective courses as needed to meet the 128 semester hours required for graduation.

FINANCE (Code 96)

96.313 Business Finance

3 semester hours

Studies financial management in the areas of asset valuation, risk, working capital management, capital budgeting, cost of capital, financial structure, financing sources, and dividend policy.

Prerequisites: Accounting 91.220, Economics 40.211 and 40.212

96.323 Money, Capital Markets, and Financial Institutions

3 semester hours

Studies short-term money market and long-term capital market instruments, major financial institutions, the relationship between interest rates and security prices, and the role of the consumer and government in financial markets.

Prerequisite: 96.313

96.333 Commercial Bank Operations (Management)

3 semester hours

Covers fundamental principles of bank operations. Includes a survey of various bank functions such as accounting, trust department, international financial services, lending operations, public service, and liability management.

Prerequisite: 96.313

96.343 Investment Management

3 semester hours

Outlines principles of security investments: descriptions of investments instruments, investment planning, security valuation, portfolio theory and strategy, and security markets.

Prerequisite: 96.313

96.413 International Finance

3 semester hours

Studies the principles and practices relevant to understanding the nature of international finance, its problems, and its institutions. Discussion centers on sources and instruments of international export and import financing, exchange rates, balance-of-payments, governmental regulations and policies, financial management, as well as accounting for international transactions.

Prerequisite: 96.313

96.423 Security Analysis and Portfolio Theory

3 semester hours

Detailed analysis of the major elements related to determining the earnings and risk potential of securities and study of the underlying principles inherent to portfolio construction.

Prerequisite: 96.343

96.432 Internship in Finance

1-6 semester hours

Prerequisites: 96.313, Junior or Senior standing, and QPA of 2.50

96.454 Financial Management Decisions

3 semester hours

Studies business financial problems and the development of financial decision-making tools and practices as used in the decision-making role of the financial manager.

Prerequisite: 96.313

96.463 Seminar in Finance

3 semester hours

Explores a wide range of topics in finance, primarily focused in the area of financial management. Designed primarily for senior finance majors.

Prerequisites: 96.313 and 96.343

96.473 Seminar in Investments

3 semester hours

Examines a wide variety of topics in the field of investment management and portfolio theory. Designed primarily for Seniors majoring in finance.

Prerequisites: 96.313 and 96.343

BUSINESS LAW

(Code 98)

98.331 Business Law I

3 semester hours

Introduces the nature and sources of law, the judicial system, principles of law applicable to business transactions including contracts, torts, sales, property, and criminal law.

98.332 Business Law II

3 semester hours

Presents basic principles of commercial law (UCC), agency, and such topics as debtor/creditor relations, business organizations, and ethics.

Prerequisite: 98.331

98.407 International Legal Environment of Business

3 semester hours

Introduction to public and private international law as applied to the increasingly globalized business environment. Cases include trade law; extraterritorial application of U.S. law; treaty law; U.S.-Japan structural impediments talks; the GATT; the European Community; multinational corporations; and environmental regulation.

Prerequisite: 98.331 or consent of instructor

98.450 Legal Environment of Business

3 semester hours

Advanced coverage of topics in government regulation of business through administrative law, legislation, and judicial intervention. May include issues in the law of corporate securities, antitrust, environmental regulations, and other aspects of legal regulation of the competitive process.

Prerequisites: 98.331 and Economics 40.212

Faculty Credentials

BARBARA E. BEHR

A.B., Cornell University; M.A., Hunter College; J.D., Rutgers Law School

BERNARD C. DILL

B.S., M.B.A., The Pennsylvania State University; D.B.A., George Washington University

KAREN J. ELWELL

A.B., A.M., J.D., University of Illinois at Urbana-Champaign

RAJKUMAR GUTTHA

B.A., M.A., Nagarjuna University; M.A., Ph.D., Temple University

DAVID G. HESKEL

M.B.A., Ph.D., University of Business, Vienna, Austria

BRUCE L. ROCKWOOD

B.A., Swarthmore College; J.D., University of Chicago Law School

LALANA T. SIERGIEJ

B.A., Chulalongkorn University; M.B.A., Lehigh University

Department of Geography and Earth Science

College of Arts and Sciences

Chairperson

James R. Lauffer

Associate Professors

Mark A. Hornberger

Joseph R. Pifer

Professors

Lee C. Hopple

James T. Lorelli

Brian A. Johnson

Assistant Professors

John J. Serff Jr.

George E. Stetson

Degree Program

Bachelor of Arts in Geography

A total of 28 semester hours is required for a major in geography.

Goals and Objectives

The programs in Urban/Regional Planning and Environmental Planning are aimed at providing majors with a broad based background in the planning field that will qualify them to obtain entry-level positions in the public and private sectors or to prepare them for entry into graduate programs in planning. These programs include the incorporation of interdisciplinary courses that are vital to this broad based preparation. In addition the academic program plays a major role in preparing the students for a required internship that provides practical experience in dealing with diverse planning activities. This internship further enhances the employment potential of the graduate.

Option I

Requires Geography 41.101 and 41.102; and 24 semester hours in Code 41 courses.

Option II - Emphasis on Urban and Regional Planning

Requires 21 semester hours in planning including: Geography 41.150, 41.350, 41.497, and 41.498; 15 semester hours from 41.101, 41.221, 41.258, 41.302, 41.310, 41.315, 41.363, and Earth Science/Geology 51.105; 19 semester hours from 41.242, 41.264, Interdisciplinary Studies 09.231, Speech Communication 25.103, Mathematics 53.141, Computer Science 56.110; Political Science 44.101 and 44.452 (for 6 semester hours); 3 semester hours from Economics 40.211, 40.212, 40.316, and 40.410; and 3 semester hours from Sociology 45.211, 45.213, 45.316, 45.457, and 45.468.

Option III - Emphasis on Environmental Planning

Requires 33 semester hours in planning including 41.105, 41.150, 41.258, 41.301, 41.302, 41.350, 41.497, 41.498; 9 semester hours from 41.310, 41.315, Earth Science/Geology 51.105 and 51.370; 18 to 19 semester hours from 41.242, 41.264 or 51.320, Interdisciplinary Studies 09.231, Speech Communication 25.103, Political Science 44.452, Mathematics 53.141, and Computer Science 56.110.

Minor in Geography

The minor in geography constitutes 18 semester hours and must include the following courses 41.105, 41.258, 41.301, and 41.302.

GEOGRAPHY
(Code 41)

41.101 World Physical Geography

3 semester hours

Studies earth-sun relationships, land masses, oceans, landforms, weather and climate, and natural resources as elements and controls related to the adjustments man makes to his environment.

41.102 World Cultural Geography

3 semester hours

Demonstrates the relationship of man, land, culture, and economic activities.

41.105 Environmental Issues and Choices

3 semester hours

Examines contemporary environmental resource issues within a values, ethics, and decision-making framework.

41.125 Weather and Climate

3 semester hours

Studies the interrelationships between the elements of weather and climate; the functional application of these elements is elaborated upon through a study of climatic realms.

41.150 Elements of Planning

3 semester hours

Acquaints students with the philosophy of planning, the roles of the planner, and planning objectives.

41.200 Geography of United States and Canada

3 semester hours

Presents a spatial analysis of the United States and Canada emphasizing such concepts as environmental perception and sequent occupancy; considers salient problems within geographic regions in terms of genesis and potential for solution.

41.201 Geography of Europe

3 semester hours

Studies Europe's physical characteristics, topography, transportation systems, resources, populations, and trade.

41.202 Geography of Latin America

3 semester hours

Examines Latin America as a major geographic region in terms of those economic, racial, and cultural forms that have provided regional unity and diversity.

41.221 Economic Geography

3 semester hours

Reviews major economic activities; focuses on significant characteristics, location theory, and spatial patterns.

41.242 Map Skills

3 semester hours

Uses a variety of published maps for interpreting and interrelating past and present physical and cultural phenomena with a view toward the future.

41.253 Landforms

3 semester hours

Studies dynamic, tectonic, and gradational forces, which in conjunction with climate and biologic forces, have shaped the earth into its present form and continuously refashion and modify it.

41.256 Climatology

3 semester hours

Analyzes climate (temperature, moisture, pressure, wind, air masses, and storms) and the worldwide distribution of climates.

41.258 Environmental Conservation

3 semester hours

Identifies resource management and environmental problems and offers possible alternative solutions for these problems.

41.264 Applied Cartography

4 semester hours

Fundamental principles, use of graphic media, methods of construction, use and interpretation of maps, models, charts, and diagrams, utilized in geography and in urban and regional planning.

41.281 Special Topics in Geography

/41.289

3 semester hours

Present areas of geographic interest to a general audience.

41.301 Water Resources Management

3 semester hours

An examination of contemporary water resource issues related to environmental planning and management.

41.302 Land Resources Management

3 semester hours

An examination of selected land-related issues and problems with the objective of identifying appropriate management techniques.

41.310 Population Geography

3 semester hours

Analyzes physical, human, and economic factors that influence the changing pattern of the political map of the world.

41.315 Outdoor Recreation Resources Management

3 semester hours

Explores the array of contemporary issues involving land, leisure, and recreational planning.

41.350 Advanced Planning

3 semester hours

Presents the development of the skills and techniques used in analysis, goal setting, plan preparation, and implementation of urban and regional planning processes and activities.

41.363 Urban Geography

3 semester hours

Provides a conceptual and methodological framework in which to view the process of urbanization.

41.475 Independent Study in Geography

1-3 semester hours

Provides independent, investigative research oriented to studies of specific geographical problems.

Prerequisite: Open to Juniors and Seniors majoring in geography.

41.497 Internship in Planning

12 semester hours

Involves the placement of a student who is enrolled in the course of study in urban/regional planning or environmental planning into a planning office for one semester, during which time the student will be actively involved in the functions and activities of that planning office.

41.498 Planning Seminar

3 semester hours

Provides an opportunity for reporting and analyzing experiences in internship. Integrates and utilizes practice in the development of land use from an urban or environmental perspective. Taken in coordination with the internship in urban/regional planning (41.497).

Faculty Credentials

LEE C. HOPPLE

B.S., Kutztown State College; M.S., Ph.D., The Pennsylvania State University

MARK A. HORNBERGER

B.S., Bloomsburg State College; M.A., Southern Illinois University; Ph.D., The Pennsylvania State University

BRIAN A. JOHNSON

B.S., M.Ed., Indiana University of Pennsylvania; D.Ed., The Pennsylvania State University

JAMES R. LAUFFER

B.S., Allegheny College; M.S., University of Hawaii; Ph.D., University of Delaware

JAMES T. LORELLI

A.B., State University of New York at Binghamton; M.A., Syracuse University; Ph.D., Southern Illinois University

JOSEPH R. PIFER

B.S., Clarion State College; M.A., Arizona State University

JOHN J. SERFF JR.

B.S., The Pennsylvania State University; M.Ed., West Chester State College

GEORGE E. STETSON

B.A., Yale University; M.A., University of Delaware; Ph.D., University of North Carolina

Department of Health, Physical Education, and Athletics

College of Arts and Sciences

Chairperson

Jerry K. Medlock

Professors

Jerry K. Medlock
Roger B. Sanders
William J. Sproule

Associate Professors

Charles W. Chronister
Ronald E. Puhl
Burton T. Reese
Henry C. Turberville Jr.

Assistant Professors

Tamra Cash
Mary T. Gardner
Steve C. Goodwin
Susan J. Hibbs
Carl M. Hinkle
Sharon L. O'Keefe
Linda M. LeMura
Thomas Martucci
David R. Rider

Instructors

Bridget Gates
Joe Hazzard

Degree Program

Bachelor of Science in Adult Health

A total of 35 to 41 semester hours is required for a major in adult health.

Goals and Objectives

The Department of Health, Physical Education, and Athletics serves the student community by providing academic credit to fulfill the university's general education requirements. Credit is granted for participation in physical activities courses designed to be of lifelong benefit to the individual in the areas of fitness and recreation.

A new interdisciplinary bachelor's degree program is available in adult health; an area of concentration is provided in elementary education. The department cooperates in several career concentrations including community recreation leader and outdoor leadership and program administration.

Students over 29 years of age must have medical clearance before participating in vigorous physical activity courses.

Required Courses

Required interdisciplinary courses are: Psychology 48.101; Sociology 45.211; Biology 50.173, 50.174, 50.205, 50.230 and 50.231; Philosophy 28.292; Health 05.298; 05.32105.411, 05.475, 05.477; and Management 93.344 or Biological and Allied Health Sciences 50.282.

Select one course from Health 05.250, 05.305, or 05.350

Select one course from Psychology 48.251, 48.311, 48.380 or 48.476

Select one course from Health 05.430, Philosophy 28.290 or Biology 50.254

Internship: 59.498-Natural Science and Mathematics.

A humanities minor in art, English, history, music, philosophy, theater, or a broad area cluster (24 semester hours) of selected courses at the 300 and 400 levels also is required.

**HEALTH, PHYSICAL
EDUCATION and ATHLETICS**
(Code 05)

05.149 Aquatics

1 semester hour

For nonswimmers - provides an opportunity to make a proper physical and mental adjustment to water. Introduces basic skills as provided by the American Red Cross with specific emphasis on becoming safe in, on, or about a body of water.

05.150 Aquatics

1 semester hour

Same content as 05.149 but adapted for beginning skills.

05.151 Intermediate Aquatics

1 semester hour

Reviews basic skills; introduces advanced skills and swimming strokes with emphasis on form and efficiency, elementary rescue, and aquatic games.

05.155 Swimnastics

1 semester hour

Assists students to attain and maintain physical fitness through water activities.

05.160 Health and the Nature of Man

3 semester hours

Survey of a variety of health topics including human sexuality, mental health, substance abuse, fitness, nutrition, cancer, death, and dying.

05.200 CPR And Safety

1 semester hour

Designed for completion of Red Cross CPR certification and to develop a safety awareness expertise for accident prevention. Fee may be required.

05.214 Fencing

1 semester hour

The lecture aspect involves a study of the history of fencing, the weapons and equipment involved, rules of the sport, and safety

procedures. The great majority of the class is spent in learning and practicing the skills, practice bouts, and a tournament.

05.217 Bicycling

1 semester hour

An introductory course for novice cyclists who have access to a variable speed bicycle. Local touring is part of the course. Local bicycle rentals are available.

05.219 Tennis

1 semester hour

A beginning course that teaches basic stroke execution, strategy, and court etiquette.

05.222 Creative Dance

1 semester hour

The purpose of this course is to develop the individual's capability for communication of thoughts, feelings and ideas through the medium of dance. Students are acquainted with the basic elements of dance and guided toward technique mastery with emphasis on expressive or creative movement.

05.224 Fitness Dance

1 semester hour

Attempts to provide a method of cardiovascular endurance in a particular interest area.

05.228 Gymnastics

1 semester hour

This co-ed introductory course works primarily on floor exercise but also includes instruction on a variety of apparatus including: balance beam, vaulting, and parallel bars.

05.230 Weight Training and Fitness

1 semester hour

Develops knowledge and skill in and appreciation of weight training and conditioning programs.

05.231 Archery

1 semester hour

This course is intended to develop knowledge and skill in and appreciation of target archery as a recreational requirement.

05.232 Bowling

1 semester hour

This beginner's course meets off-campus. Students learn the mechanics of bowling. Students begin with appropriate ball selection, learn acceptable styles, practice proper etiquette, and bowl under the instructor's close supervision. Fee required.

05.233 Badminton

1 semester hour

In-depth dealing of the strokes, strategies, and game of badminton from a beginner's viewpoint. It can also be very valuable to the immediate player.

05.234 Golf

1 semester hour

An introductory course designed to develop basic skills. Rules, techniques, etiquette, and an emphasis on skill practice are stressed. Fee may be required.

05.235 Riflery

1 semester hour

This course is intended to develop the skills, safety, understanding, and appreciation of riflery as a recreational pursuit.

05.236 Volleyball

1 semester hour

This course is intended to develop the skills, understanding, and appreciation of volleyball as a recreational activity as well as a vigorous, competitive sport.

05.237 Modified Physical Education

1 semester hour

Independent and small group instruction for students who are unable to take part in other activities due to physical handicaps. Not offered on a regular basis.

05.238 Racquetball-Handball

1 semester hour

An introductory course that teaches history, etiquette, strokes, serves, and strategy in singles and doubles.

05.239 Square Dance

1 semester hour

This course develops skill in square and folk dances. Students are taught the sociological, physiological, and psychological values of square dancing. Students acquire a repertoire of western square dance moves and dance techniques.

05.240 Slimnastics and Fitness

1 semester hour

Develops awareness and understanding of physical self and capabilities; teaches students how to improve their physical condition. Exercise and body mechanics are included.

05.241 Judo Self-Defense

1 semester hour

This course is designed to give the student a better understanding of the sport and a competency of judo and self-defense techniques. This course should be used as an elective within the physical education service program requirements.

05.242 Physiological and Medical Aspects of Athletic Coaching

3 semester hours

Presents basic anatomical and physiological factors affecting movement, endurance, strength, and conditioning in sports; studies equipment, training, treatment of injuries, safety problems, and medical research relating to athletics.

05.243 Backpacking

1 semester hour

Reviews backpacking equipment and first aid procedures; includes how to select trails, menus, and cooking methods; teaches safety procedures; discusses how to adjust to the seasons, and how to protect the environment.

05.244 Orienteering

1 semester hour

Practical application of the knowledge and skills needed to satisfactorily follow a designated course through the wilderness with use of a watch, a compass, and a map.

05.245 Canoeing

1 semester hour

Course is designed to offer instruction in the basics of canoeing and to transfer those basics into skills that can be used recreationally in one's lifetime. Lake and river canoeing will be taught and experienced.

05.246 Beginning Skin and Scuba Diving

1 semester hour

Provides basic instruction in the use of snorkel, mask, fins, and scuba units and an understanding of the physics of diving with a great emphasis on safety.

05.247 Rock Climbing

1 semester hour

Provides actual rock climbing experiences for the beginning rock climbing enthusiast. Introduces basic knowledge, skills, and practical application of climbing. Serves as a foundation for further experiences in this area of recreation.

05.248 Basic Sailing

1 semester hour

A beginning course that includes terminology, maneuvering under normal and severe weather conditions, seamanship, boating, and safety. Swimming ability required.

05.249 Synchronized Swimming

1 semester hour

Provides students with a basic background in the fundamentals skills, strokes, and movement progressions involved in developing a basic routine.

05.250 Lifesaving

2 semester hours

Provides an opportunity to attain an American Red Cross Lifeguarding Certificate. CPR is required (prerequisite or concurrent).

05.251 Techniques of Coaching and Officiating Baseball

3 semester hours

Classroom-laboratory courses dealing with an overall view of baseball administration, organization, fundamental skills, drills, and techniques of umpiring.

05.252 Techniques of Coaching and Officiating Basketball

3 semester hours

05.253 Techniques of Coaching and Officiating Football

3 semester hours

Instruction in techniques of coaching, player-coach relationship, program organization and administration, and officiating.

05.254 Techniques of Coaching and Officiating Field Hockey

3 semester hours

Instruction in techniques of coaching and officiating all the phases of field hockey.

05.256 Techniques of Coaching and Officiating Cross Country, Track and Field

3 semester hours

Analysis of technique and the development of personal skills. Knowledge provided for development of a sound track program. Rules, starting, officiating, scoring, and facility use will be discussed.

05.257 Techniques of Coaching and Officiating Wrestling

3 semester hours

This course is intended to give prospective coaches an insight into the problems and situations that may be encountered; it prepares the individual to teach as well as coach wrestling.

05.260 Techniques of Coaching and Officiating Swimming

3 semester hours

Presents techniques of coaching, swimming, diving, and rule interpretations and duties of officials.

05.270 Exercise and You

2 semester hours

Studies appropriate physiological functions, exercise physiology, mechanical implications, and fitness measurement. Reviews procedures and practical application through programmed exercise. (3 contact hours)

05.271 Intermediate Archery

1 semester hour

Provides the opportunity for the student to develop shooting skills.

05.272 Intermediate Bowling

1 semester hour

Attempts to develop advanced skill and knowledge of bowling. Fee required.

05.273 Intermediate Golf

1 semester hour

Provides instruction in the techniques and strategy involved in improving the individual skills of the student. Fee may be required.

05.274 Intermediate Tennis

1 semester hour

Attempts to improve the student's tennis skills.

05.275 Intermediate Volleyball

1 semester hour

Studies the development and history of volleyball. Attempts to improve fundamental skills, team play, and strategy through participation.

05.276 Intermediate Judo

1 semester hour

Provides student's an opportunity to develop higher levels of skill competencies in judo.

05.290 Special Topics

1-3 semester hours

Topics in this course will be announced in the scheduling bulletin prior to each semester.

05.298 Fitness and Wellness

3 semester hours

Provides learners with the tools for lifelong healthful living. Personal health profiles, mental health, personal fitness programs, stress management, nutritional, and environmental health topics are explored. Successful completion of course fulfills one credit of the physical education requirement.

05.305 Aquatic Fitness Programming

2 semester hours

This course develops fitness management leadership skills in an aquatic setting. An understanding of the physiological principles of exercise applied to swimming and other water activities will be developed. No previous swimming experience is necessary.

**05.311 Methods and Materials in
Elementary School Physical
Education**

3 semester hours

Provides principles and procedures to meet the needs and interests of elementary-age children in the area of physical education.

**05.320 Health and Safety in the
Elementary School**

3 semester hours

Provides students with health knowledge and training in the areas of elementary school environment and health appraisal techniques for teaching elementary school health, the elementary school health program, and safety education in the elementary school.

05.321 First Aid Safety

3 semester hours

Designed for the person who needs training in first aid and safety. Red Cross standard, advanced, and cardiopulmonary resuscitation certifications may be obtained.

05.331 Recreation Education

3 semester hours

Presents discussion of, and practice in, recreation activities used in school and playground situations. Emphasizes recreation planning, techniques of leadership, legal liability, and trends in recreation programming.

**05.333 School Camping and Outdoor
Education**

3 semester hours

Acquaints students with the scope of organized camping and the acquisition of and practices in the basic skills required of individuals

involved in camping and outdoor education training. Requires field experiences.

05.350 Water Safety Instructor

2 semester hours

Reviews the nine basic swimming strokes and advanced lifesaving skills with an opportunity to analyze stroke mechanics, teaching methods, and provisions. An American Red Cross Water Safety Instructor Certificate is awarded after satisfactory completion.

Prerequisites: A valid American Red Cross Advanced Lifesaving Certificate, 17 years of age prior to starting date of course, sound physical condition, and a Red Cross Swimmer's Certificate, or the ability to perform the swimmer course skills.

05.377 Adult Exercise Programming

3 semester hours

A concentrated study of adult physiological functions under stress and the adjustment and regulatory activities of the body during exercise; development of a working knowledge of assessments, motor characteristics, and physical performance.

05.411 Adapted Physical Education

3 semester hours

Reviews the study and practice in techniques used by teachers to recognize and meet problems of the handicapped.

05.420 Techniques in Health and Physical Education for Special Education Teachers

3 semester hours

Presents sound principles and procedures for meeting physical, emotional, and social needs of the mentally retarded.

05.430 Current Issues in Health Education

3 semester hours

Assesses major problems which concern communities today: drugs, sexually transmitted diseases, pollution, alcohol, and suicide.

05.477 Methods and Materials in Adult Physical Education

3 semester hours

This course emphasizes the academic and technical knowledge necessary to conduct health and fitness programs in public and private agencies. Students are prepared to assume leadership and management positions within the health and fitness industries.

Faculty Credentials

TAMRA CASH

B.S., Elon College; m.S. University of Tennessee; M.S. Eastern Kentucky University

CHARLES W. CHRONISTER

B.S., M.Ed., East Stroudsburg State College

BRIDGET GATES

B.S. West Virginia University; M.S., Shippensburg University

MARY T. GARDNER

B.S., M.Ed., East Stroudsburg State College

STEPHEN C. GOODWIN

B.S., East Stroudsburg University; M.S., Ohio University

JOE HAZZARD

B.S., Salem College; M.S., Shippensburg University.

SUSAN J. HIBBS

B.S., Western Kentucky University; M.Ed., East Stroudsburg State College

CARL M. HINKLE

B.S., Montana State University; M.S., Ithaca College

LINDA M. LEMURA

B.S., Niagara University; M.S., Ph.D., Syracuse University

SHEILA MARTUCCI

B.A., William Paterson College

THOMAS MARTUCCI

B.S., Trenton State College; M.A., University of North Carolina

JERRY K. MEDLOCK

A.B., Samford University; M.A., Ed.D., University of Alabama

SHARON L. O'KEEFE

B.S., Trenton State College; M.Ed., East Stroudsburg State College

RONALD E. PUHL

B.S., Lock Haven State College; M.S., West Chester State College

BURTON T. REESE

B.A., M.Ed., East Stroudsburg State College

DAVID R. RIDER

B.A., The University of Chicago; M.S., Indiana University of Pennsylvania

ROGER B. SANDERS

B.S., West Chester State College; M.A., Ball State University

WILLIAM J. SPROULE

A.B., Syracuse University; M.S., Brooklyn College; D.Ed., The Pennsylvania State University

HENRY C. TURBERVILLE JR.

B.S., M.A., University of Alabama

Health Services

School of Health Sciences, College of Professional Studies

Program Coordinator

James E. Cole, professor, Department of Biological and Allied Health Sciences

Degree Program

Associate of Science in Health Services

Goals and Objectives

The programs in allied health sciences encompass those health areas in which individuals support, aid and increase the efficiency and effectiveness of other health professionals by becoming a contributing member of a health care team. Programs in this area combine natural science and liberal arts education with clinical instruction. In general, students who complete any of the programs may enter their professions immediately. Others may select postgraduate education in health care. Central to most allied health programs, especially the clinical portion, is satisfactory completion of the clinical standards, often referred to as the *Essentials*. These standards establish requirements related to curriculum, personnel, financing, resources, and records.

Program of Study

This *advanced entry* degree program is available to health workers who have obtained a clinical education from an accredited health agency and who desire additional education in communicative and interpersonal skills. Its initiation was encouraged by the fact that many certified health workers are now being strongly encouraged to continue their education in a collegiate setting. The role of the health worker has expanded to include greater responsibility in the hospital and nursing home setting as well as a more substantial commitment to improving community health. The program attracts medical laboratory technicians, licensed practical nurses, histologic technicians, and laboratory assistants, i.e., those workers who have satisfactorily completed the equivalent of one year's clinical education.

Most students in the program take courses on a part-time basis and require more than two years to complete the curriculum.

Candidates for the associate degree must have satisfactorily completed 22 semester hours of coursework, maintained a minimum QPA of 2.0, and have proof of satisfactory completion of a clinical program. Awarding of this associate degree is contingent upon the student being accepted for candidacy and completion of the program while maintaining academic good standing. Transfer credits from accredited institutions are accepted, but at least 15 semester hours must be taken at Bloomsburg University.

Required Courses

The following courses are required: English 20.101 and 20.201; Biological and Allied Health Sciences (for non-biology majors) 50.107, 50.173, 50.174, 50.205, 50.240, 50.282 (Special Topics: Health Care Leadership) or Management 93.346 or 93.445; Chemistry 52.101, 52.103; one course from Mathematics 53.101, 53.111, 53.113, 53.114, 53.118, 53.123, 53.141; Psychology 48.101, 48.210 or 48.211, 48.251, 48.311; Sociology 45.211; and Speech Communication 25.103; Computer Science 56.110.

Professional Clinical Courses

Proof of certification or licensure as a health worker—12 semester hours for this certification.

Department of History

College of Arts and Sciences

Chairperson

James R. Sperry

Professors

Craig A. Newton
H. Benjamin Powell
Theodore M. Shanoski
Ralph Smiley
James R. Sperry
George A. Turner

Associate Professors

Richard G. Anderson
William Hudon
Arthur W. Lysiak
Anthony J. Sylvester

Assistant Professors

Walter Howard
Jeanette Keith

Instructor

Kenneth Millen-Penn

Degree Program

Bachelor of Arts in History

A total of 30 semester hours is required for a major in history with at least 15 semester hours from 300 or 400 level courses.

Goals and Objectives

The History Department fosters both broad based and specific objectives. Achievement of these goals enhances the university's academic climate, the department's professional effectiveness, and prepares its majors for the practical skills needed for employment as well as the knowledge and cultural understanding that is the mark of an informed citizen in a democratic society. The degree program also prepares students for graduate work and professional training, especially in the field of law.

Introductory history courses provide the basic factual information which places national and international events in their proper setting. Advanced courses develop interpretive and analytical abilities as well as those oral and written skills applied to historical inquiry and the day-to-day problem-solving situations confronted by the educated student. The ability to complete research and work independently on a specialized research projects and the maturity associated with independent inquiry are essential ingredients of advanced study. Current political and social issues are handled within a flexible academic program which features traditional topical and/or time periods as well as issue-oriented courses which deal with current events. Diverse course offerings allow the student the opportunity to study nations whose culture, values, and political goals differ from our own. The examination of earlier cultures, time periods, and emerging nations allow the student to place the evolution of civilization in a proper historical context.

Lastly, history is among the humanities. Like a great painting, a piece of music or a gorgeous sunset—history is viewed as something that enriches one's life and has an existence separate from the practical skills and professional preparation associated with the discipline.

Required Courses

Five history courses are required for the major: 42.112 Origins of the Modern World, 42.113 The Modern World, 42.121 United States History: Colonial Period to 1877, 42.122 United States History: 1877 to the Present, 42.398 Research and Writing Skills. It is strongly recommended that students take 42.398 Research and Writing Skills in their junior year.

One course, 3 semester hours, is selected from the following regional history courses:

42.141 The Modern Far East, 42.142 Latin America, From European Colonization to the Present, 42.143 Black Africa, 42.144 Islamic and Hindu Worlds: Middle East, India, and Malaysia.

One course, 3 semester hours, is selected from the following upper division courses in American history: 42.372 Colonial America and the War of Independence, 42.379 The New Nation: United States, 1800-1845, 42.381 Civil War Reconstruction and Industrialization 1845-1896, 42.383 Shaping of Contemporary America, 1896-1941, 42.385 Recent American History: 1941 to the Present.

One course, 3 semester hours, is selected from the following upper division courses in European history: 42.319 Modern England: The First Industrial Empire, 42.320 French Revolution and Napoleon, 42.327 World War I and the Dictators, 42.328 World War II and Its Aftermath, 42.452 Soviet Russia.

Elective Courses

Two courses, 6 semester hours, are selected as electives from any of the 300 or 400 level history courses.

Minor in History

This degree program requires 18 semester hours of history courses with at least 6 semester hours in 300 or 400 level courses. The minor includes: 6 semester hours, any two 100 level history courses; 6 semester hours, any two 200 or 300 level history courses; 3 semester hours, any of the 300 or 400 level history courses; and 42.398 Research and Writing Skills.

The program for the history minor provides the following features: at least one directed exercise in independent historical research (42.398); a minimal background in those courses at the 100 level that are basic to and required of history majors; flexibility in framing a minor pertinent to the student's academic interest; and at least one course in addition to 42.398 at an advanced requirement level.

HISTORY (Code 42)

Prerequisites are subject to modification by the instructor.

42.100 Transatlantic World in the 20th Century

3 semester hours

Represents an analysis comparing and contrasting the experiences of Americans and Western Europeans since 1918. Focuses on the decay of Western traditions, the dilemma of the individual in an increasingly complex society, and the rise of "technocratic" civilization. Provides insight into roots of current events, promotes sense of historic awareness beyond the national level, and enhances appreciation of basic similarities and differences among Americans and Western Europeans.

42.112 Origins of the Modern World

3 semester hours

Describes the political, economic, social, intellectual military forces, and events that shaped the story of mankind from the early Renaissance to the early 19th century.

42.113 The Modern World

3 semester hours

Reviews the political, economic, social, intellectual, and technological elements of 19th and 20th century history, showing the progress of the Western tradition and the growing importance of the non-Western world.

42.121 United States History Survey: Colonial Period to 1877

3 semester hours

Presents a chronological history to 1877 with emphasis on foreign affairs and the evolution

of political, economic, social, and cultural aspects.

**42.122 United States History Survey:
1877 to the Present**

3 semester hours

Presents political, social, cultural, intellectual, economic, and foreign affairs developments of the United States from Reconstruction to the present.

42.133 The Ancient and Medieval Worlds
3 semester hours

Surveys from the Ancient Near East to the fall of the Roman Empire in the West, emphasizing Greece, Rome, and the rise of Christianity; a study of the people and countries of the West that emerged after the fall of the Roman Empire, with emphasis on feudalism, manorialism, and the medieval church. Not offered every semester

42.141 The Modern Far East
3 semester hours

Focuses on modern China and Japan and closely studies the value system of these peoples as reflected in their politics, arts, and communications in the 19th and 20th centuries. Particular attention paid to the interaction between the old models provided by Confucianism and Buddhism with the models provided by the West during modernization. Not offered every semester.

**42.142 Latin America: From European
Colonization to the Present**

3 semester hours

A concise introductory survey of Latin American history from 1492 to the present, stressing the significant economic and social factors in its evolution. Not offered every semester

42.143 Black Africa
3 semester hours

Presents a survey of the transformation of the societies of Sub-Sahara Africa from colonialism to national independence.

**42.144 Islamic and Hindu Worlds:
Middle East, India, and Malaysia**
3 semester hours

Introductory course that surveys the religious, cultural, economic, and political history of the Middle East, North Africa, the Indian subcontinent, the Malay Archipelago, and their bearing on contemporary Third World problems. Not offered every semester.

**42.208 Contemporary Issues in U.S.
History**

3 semester hours

Examines selected issues of social, political, or foreign affairs within a historical context, describing the origin, evolution, current significance, and importance in American society. The issues may vary each semester.

**42.210 Values in Conflict in 20th Century
History**

3 semester hours

Selects 1960s American conflicts involving values of the individual and the civilization are presented and resolutions achieved are reviewed and evaluated. The selection of conflicts varies each semester.

**42.215 Global Issues in History:
A Conflict of Values**

3 semester hours

Introduces the historical and global nature of many of today's critical issues that have far reaching consequences. Population explosion, famine in the underdeveloped world, energy crisis, terrorism, and the spread of nuclear weapons are illustrative of some of the issues that will be examined. Attention will be given to defining values as related to these issues. Not offered every semester.

42.222 Growth of Business in America
3 semester hours

Focuses on the evolution of business from 1776 to the present, major changes in the corporate management from 1850 to the present, and life in the managerial world in the post-1945 period.

42.223 Economic History of the United States**3 semester hours**

To understand the changing nature of the American economy, this course covers three time periods: the commercial-agricultural age, the industrial age, and the modern managerial age. Agriculture, banking, business administration, commerce, labor, manufacturing, mining and transportation, social and political factors that contributed to changing economic relationships in the United States are required.

42.224 The Immigrant Experience**3 semester hours**

Surveys immigration to the United States from colonial to present time, tracing the experience from conditions in native lands, through the transit to America, to settlement and attending problems during the earlier-years in the new country. Occasional case studies illustrate the experience. The socio-historical framework of assimilation is used to describe separate eras of immigration. Not offered every semester.

42.226 Popular Culture in America**3 semester hours**

Review of major forms of popular culture in America from colonial beginnings to the present, telescoped to permit fullest presentation of the period since 1920. Course blends continuity of values and ideas in American culture with dynamics of change to which the culture constantly adjusts. Not offered every semester.

42.227 The American Woman: Accomplishments and Aspirations**3 semester hours**

Identifies status, roles, and achievements of American women from Colonial Period to present. Examines historical events or trends which elevated or diminished women's roles in society. Discusses attitudes of men toward women and their role so that the advancement of the latter will be perceived to result from the interaction of sexes which produced

major turning points for women in American history. Not offered every semester.

42.228 African-American History

This course examines the nature and meaning of the African-American experience in the United States surveyed from its beginnings to the present. It will also review black creative expressions in the visual arts, music, literature, philosophic thought, and social history.

42.229 Modern World Leaders**3 semester hours**

Studies significant world leaders in religion, politics, war, and culture and their impact on world history. Focuses on different leaders each time offered and covers a selected period from the Renaissance to the present. Analyzes the conditions which helped produce these leaders and ends by discussing reasons for their success or failure. Includes only leaders who have made a significant contribution outside their national boundaries.

42.246 Modern European Thought and Society**3 semester hours**

Relates changes in currents of thought during the period to political, economic, and social developments. Special attention given to interpretations of major intellectual movements. Not offered every semester.

42.250 History of Science**3 semester hours**

The historical development of the sciences and the nature of scientific thought and method are studied to provide insight and understanding of the characteristics of the sciences as well as their significance to human progress from antiquity to the present. Not offered every semester.

42.255 Health Issues and Health Professionals in History**3 semester hours**

Delineates major issues and personalities in the rise of modern health care as well as ideas

and attitudes prevalent in the histories of the health professions. Compares and contrasts American, Western European, and Canadian health services. Explains relevance of cultural values for the theory and organization of health care. Not offered every semester.

42.260 Sport and Society in America

3 semester hours

Presents a cultural approach to organized sport in the United States, which proceeds from the premise that sport mirrors the values, states of technology, and the conditions of society. Emphasizes the rise of the institution of sport and its impact on business, commercialism, leisure, affluence, urbanism, nationalism, and the problems of governance and law. Not offered every semester.

42.277 History of Christian Religion

3 semester hours

Surveys the ancient, medieval, and modern roots of contemporary Christian denominations and movements and focuses upon key issues, personalities, and historical conditions in the development of Christian religion. Not offered every semester.

42.281 Military History I

3 semester hours

Studies organized warfare from its origins to the last campaign of Napoleon I, concentrating on strategy and tactics. Examines moral and social problems raised by warfare. Not offered every semester.

42.282 Military History II

3 semester hours

Studies organized warfare and the theory of war from the Napoleonic age to the present, concentrating on strategy and tactics. Examines the socio-political background, especially of the two world wars and the age of guerrilla warfare. Not offered every semester.

42.318 Early England: The Making of an Island State

3 semester hours

Reviews political, economic, social, and cul-

tural life in England to the Glorious Revolution. Not offered every semester.

42.319 Modern England: The First Industrial Empire

3 semester hours

Examines political, social, economic, and cultural development in England from the Glorious Revolution to the present with emphasis on the development of democracy, the Industrial Revolution, and the growth and decline of the British Empire. Not offered every semester.

42.320 French Revolution and Napoleon

3 semester hours

Analyzes 1789-1815 era in France and assesses its significance for the history of France and the world. Not offered every semester. Prerequisite: 42.112 or consent of the instructor.

42.324 Revolutionary Europe and the Rise of Modern Traditions, 1600-1789

3 semester hours

Discusses the rise of the modern state; the political, intellectual, social, economic, and cultural aspects of the eras of the Scientific Revolution and Enlightenment; the establishment of European world hegemony and a world economy; the diplomatic and military interaction of the European states. Not offered every semester.

42.326 Europe 1789-1914

3 semester hours

Studies political and military events within their economic, social, intellectual, religious, and artistic settings from the French Revolution through the Industrial Revolution. Examines the unification of Italy and Germany to the diplomatic crises that led to the first world war. Not offered every semester.

42.327 World War I and the Dictators

3 semester hours

Origins of World War I and alliance systems that fought it, diplomacy and military strategy and tactics of the war and the peace

treaties of 1918-1920. The rise of Mussolini, Stalin, Hitler, and the lesser dictators along with the international crises that finally culminated in the outbreak of World War II. Course stresses ideological and global patterns of which European events formed a part. Not offered every semester.

42.328 World War II and its Aftermath
3 semester hours

Surveys European powers in the late 1930s with emphasis on the forces leading to war; military and diplomatic developments of World War II and the causes of the East-West rift; the reconstruction of democratic Europe and formation of the Soviet block; European integration and political trends in both power systems. Not offered every semester.

42.336 Medieval Europe
3 semester hours

An analysis of European history from 300 to 1400, focusing on political, social, religious, and intellectual trends during the period. Feudalism, church history, and commercial relations receive particular emphasis. Examines the status of women in medieval society. Prerequisite: 42.112

42.337 Europe in the Renaissance and Reformation
3 semester hours

A detailed analysis of European history from 1300 to 1650, focusing upon the intellectual and artistic movement known as the Renaissance and the religious upheaval associated with the terms "Reformation" and "Counter-reformation." Political, social, intellectual, and religious trends are highlighted. Prerequisite: 42.112

42.347 History of the Holocaust
3 semester hours

Focuses upon the major theme—the genesis and implementation of the planned destruction of European Jewry from 1933 to 1945, after briefly tracing the history of anti-Semitism and evaluating scope of prejudice, discrimination, and genocide in contemporary

civilization. Includes an analysis of literature of the Holocaust and evaluation of the Holocaust's impact on modern-day Israel and world Jewish community. Not offered every semester.

42.356 Russia to the Bolshevik Revolution
3 semester hours

Provides a survey of Russia from the beginnings of the Russian State in the 9th century through Kievan, Muscovite, and Imperial periods to the Bolshevik Revolution of 1917. Not offered every semester.

42.372 Colonial America and the War of Independence
3 semester hours

Reviews European colonization in North America with major attention to the establishment and development of England's colonies, an emerging American society, and problems which created conflict between the Americans and the British resulting in the American War of Independence. Not offered every semester.

42.379 The New Nation: United States, 1800-1845
3 semester hours

American life changed dramatically as the nation began its experiment with democracy. Course reviews the impact of the democratic experiment on government, the economy, our culture, and society. Among subjects studied are political parties, railroads, popular music, and anti-slavery. Not offered every semester.

42.381 Civil War, Reconstruction and Industrialization: United States, 1845-1896
3 semester hours

During these years, the United States endured its most devastating war, rebuilt, and emerged as the world's leading industrial power. Surveys the causes of the Civil War, the war itself, reconstruction, and industrialization. Topics include politics, ideology, military technology and tactics, race and

gender issues, the economy, labor, immigration, and popular culture.

Prerequisite: 42.121

42.383 Shaping of Contemporary America, 1896-1941

3 semester hours

During these years, the United States underwent major changes: imperialistic adventures, reluctant but expectant involvement in World War I, the "flaming twenties," and the nation's greatest depression. Out of these emerges the modern mass-centered welfare state. Not offered every semester.

42.385 Recent American History: 1941 to the Present

3 semester hours

Examines the major political, economic, social-cultural, and intellectual developments in the United States from 1941 to the present. Cold War, Korea and Vietnam, turmoil of the 1960s, nuclear concerns, and the role of the individual in an increasingly complex, technological society are some of the major themes examined. Not offered every semester.

42.388 Pennsylvania

3 semester hours

Examines major contributions of Pennsylvania to national life, relations between state and national movement. Not offered every semester.

42.391 Diplomatic History of the United States to 1898

3 semester hours

Presents a critical analysis of United States foreign relations from the Colonial Period to the 1898 war with Spain. Not offered every semester.

42.392 Diplomatic History of the United States Since 1898

3 semester hours

Presents a critical analysis of United States foreign relations from the war with Spain in 1898 to present. Not offered every semester.

42.397 Independent Study in History

1-4 semester hours

The topic selected must be approved by a committee appointed by the chairperson. Independent reading and/or research related to some aspect of history is supervised by an appropriate member of the department. A student may register for this course no more than twice, and credits may not exceed 4 semester hours. See the section on *Independent Study*.

Prerequisite: 60 semester hours

42.398 Research and Writing Skills

3 semester hours

Focuses on the mechanics and processes of research and on the development of creativity and writing style through composition of a brief formal paper.

42.452 Soviet Russia

3 semester hours

Presents a critical analysis of the political, social, economic, and cultural evolution of the Soviet Union and a study of Soviet foreign policy. Not offered every semester.

Prerequisite: 42.113

45.453 Problems of Contemporary Latin America

3 semester hours

Analyzes recent events or movements that may indicate recurrence of historical problems or major developments of international significance in selected countries of Latin America. Not offered every semester.

Prerequisite: 3 semester hours in history

42.472 History of Labor in the United States

3 semester hours

Surveys the emergence and development of organized labor from the post-Civil War period to the present. A third of the course is devoted to an analysis of contemporary labor-management problems and labor's changing role in our increasingly technological society.

Prerequisite: 3 semester hours in history

42.497 Internship in History**3-12 semester hours**

Provides a work-study experience jointly administered by an academic faculty member and a sponsoring employer, with approximately 40 hours of supervised work generating each semester credit hour. Considered a "bridge" between the classroom and the professional world.

Prerequisite: For history majors, 15 semester hours of history including 42.398. Other majors may enroll if they receive the consent of their faculty advisers.

Note: A student may not apply more than 3 semester hours of internship toward the fulfillment of the history major, although a student may enroll for more than 3 semester hours of 42.497.

Faculty Credentials**RICHARD G. ANDERSON**

B.A., Western Kentucky State College; M.A., Ph.D., Texas Christian University

WALTER HOWARD

B.A., M.A., University of West Florida; Ph.D., Florida State University

WILLIAM HUDON

B.A., Fordham University; M.A., Ph.D., University of Chicago

JEANETTE KEITH

B.A., Tennessee Technological University; Ph.D., Vanderbilt University

ARTHUR W. LYSIAK

B.S., M.A., Ph.D., Loyola University

KENNETH MILLEN-PENN

B.A., Oneonta State University; M.A., State University of New York, Binghamton

CRAIG A. NEWTON

B.A., University of Pennsylvania; M.A., Southern Illinois University; Ph.D., Western Reserve University

H. BENJAMIN POWELL

A.B., Drew University; M.A., Ph.D., Lehigh University

THEODORE M. SHANOSKI

B.S., East Stroudsburg State College; M.A., Ohio University; Ed.D., Temple University

RALPH SMILEY

B.A., Brooklyn College; M.A., Ph.D., Rutgers University

JAMES R. SPERRY

B.A., Bridgewater College; M.A., Ph.D., University of Arizona

ANTHONY J. SYLVESTER

A.B., Newark College of Rutgers University; M.A., Rutgers University

GEORGE A. TURNER

B.S., M.S., Eastern Illinois University

Interdisciplinary Studies

Interdisciplinary courses listed in this section are planned and often staffed by members of more than one department. The content of these courses subsequently spans two or more academic disciplines.

Broad Area Programs for Bachelor of Arts and Bachelor of Science

These programs offer opportunities for students to follow a less conventional curriculum according to their preferences. A student fulfills 54 semester hours of General Education requirements and then chooses to complete the prescribed core courses in the humanities, the social sciences, or the natural sciences and mathematics. He or she completes a total of 48 semester hours in the area of his or her core curriculum, with free electives sufficient to meet the 128 semester hour requirement for graduation. Students interested in the Broad Area Program should contact the program's adviser Roosevelt Newson in the College of Arts and Sciences.

Requirements for the Broad Area Program in the Humanities

20.302 Advanced Composition	3 semester hours
20.363 Shakespeare	3 semester hours
26.208 Introduction to Theater Arts	3 semester hours
25.321 Argumentation	3 semester hours
28.211 Introduction to Philosophy	3 semester hours
28.212 Logic	3 semester hours
Art history elective	3 semester hours
Music history elective	3 semester hours
History-choose two courses	6 semester hours
Languages and Cultures option:	3 semester hours
Choose from:	
• Intermediate foreign language course, 1 semester hour	
• Foreign literature course (in original or translation), 1 semester hour	
• Foreign culture and civilization course, 1 semester hour	
Total Core	33 semester hours
Humanities electives	15 semester hours
Total Broad Area Humanities Requirements	48 semester hours

Requirements for the Broad Area Program in the Social Sciences

40.211 Principles of Economics I	3 semester hours
40.212 Principles of Economics II	3 semester hours
41.101 World Physical Geography	3 semester hours
41.102 World Cultural Geography	3 semester hours
44.101 Elements of Political Science	3 semester hours
44.161 U.S. Government	3 semester hours
45.211 Principles of Sociology	3 semester hours
Sociology elective	3 semester hours
46.101 Introduction to Anthropology	3 semester hours
or 46.200 Principles of Cultural Anthropology	

48.101 General Psychology	3 semester hours
Psychology elective	3 semester hours
Total Core	33 semester hours
Social Sciences electives	15 semester hours
Total Broad Area Social Sciences Requirements	48 semester hours

Requirements for the Broad Area Program in Natural Sciences and Mathematics

* 53.125 and 53.126 Analysis I and II	6 semester hours
53.175 Introduction to Computer Science	3 semester hours
** 54.211 and 54.212 General Physics I and II	8 semester hours
50.110 Biology of Animals, General Zoology	4 semester hours
50.120 Biology of Plants, General Botany	4 semester hours
52.111 and 52.112 General Chemistry I and II	6 semester hours
52.113 Chemistry Laboratory	2 semester hours
51.101 Physical Geology	3 semester hours
51.111 Physical Geology Laboratory	1 semester hour
51.102 Historical Geology	3 semester hours
51.112 Historical Geology Laboratory	1 semester hour
Total Core	38-41 semester hours
Approved electives to complete	9-11 semester hours
Total Broad Area Natural Science and Mathematics Requirements	50 semester hours

* Subject to the discretion of the Department of Mathematics and Computer Science and the adviser, student will take 53.113 Pre-Calculus before 53.125 Analysis I.

**Or 54.111 and 54.112 Introductory Physics I and II, subject to the discretion of the instructor and the adviser, considering that 54.211 and 54.212 General Physics I and II have as a prerequisite (or concurrent registration) 53.125 and 53.126 Analysis I and II, respectively, and are requirements for certain advanced courses in physics and chemistry.

Electives within the Broad Area requirements are to be chosen from a list compiled by the adviser for the program.

**INTERDISCIPLINARY
STUDIES
(Code 09)**

**09.111 Introduction to the Peoples of the
Third World**

3 semester hours

Examines the peoples of the Far and Middle East, Africa, and Latin America; their art, literature, philosophy, cultural geography, and history, sketching their importance in the world.

**09.211 History of Natural Scientific
Thought**

3 semester hours

Reviews the historical development of the natural sciences and mathematics, the nature of scientific and mathematical thought and methods, characteristics of these disciplines and their significance to human progress.

**09.213 Science, Technology, and Human
Values**

3 semester hours

Compares the interaction of science and technology with human values. Studies rep-

representative past, present, and future technological developments and their impact on personal and social values.

09.231 Technical Writing

3 semester hours

Presents the principles of technical writing in the physical, natural, and social sciences and in technology and industry. Promotes effectiveness in communicating technical information to specialized and general audiences. Uses seminar approach involving class participation and individualized instruction.

09.311 Seminar in American Studies I

3 semester hours

Provides a thorough appreciation of our varied heritage and research materials and resources available for deepening the knowledge of this growing area of inquiry.

09.312 Seminar in American Studies II

3 semester hours

A continuation of 09.311.

09.401 History and Policies of USSR

3 semester hours

Combines the study of the history of the USSR with the approaches of political science. Usually offered during summer session. Involves students in a tour of areas of the USSR.

09.431 Socialism: Theory and History

3 semester hours

Provides an historical and theoretical study of the socialist idea and its various attempted realizations from biblical times to present.

09.491 Honors Independent Study in the Humanities I

1-3 semester hours

An independent study course in which, under the guidance of a faculty mentor, the student completes the initial project(s) in the first stage of their proposed honors work.

09.492 Honors Seminar in the Humanities

3 semester hours

Allows for continued in-depth study of a particular research project of the student's choice and provides honor students the opportunity to discuss with peers and interested faculty concepts in the humanities related to the project and to the student's major field. Seminars organized around general themes selected by the humanities honors committee and announced in advance.

09.493 Honors Independent Study in the Humanities II

1-3 semester hours

Independent study in an area previously approved as part of the student's overall honors program.

09.495 Honors Seminar in the Natural Sciences and Mathematics

1 semester hour

Offers a cross-disciplinary perspective to students in the honors program with emphasis on student presentation and discussion of important topics in a student's area of expertise.

09.496 Honors Independent Study in the Social Sciences I

1-3 semester hours

Involves the student's selection of an honors adviser and project, initial exploratory reading, and a proposal for a major Honors Independent Study Project. Reserved for students who qualify for and wish to pursue an honors course of study in their last two years. Usually taken in the junior year.

09.497 Honors Seminar in the Social Sciences

3 semester hours

Allows for continued in-depth study of a particular research project and provides honor students the opportunity to discuss with peers and interested faculty concepts in the social sciences which relate to the research project and the student's major field. Focus of the seminar is interdisciplinary.

09.498 Honors Independent Study in the Sciences II

3 semester hours

Provides for an on-site work experience and training program designed to give selected interns an opportunity to apply theoretical and descriptive knowledge acquired in multiple humanities disciplines to the operations of the work setting. Requires approval of the internship coordinator and the dean of Arts and Sciences.

47.498 Social Sciences Internship

1-9 semester hours

Provides for an on-site work experience and training program designed to give selected interns an opportunity to apply theoretical

and descriptive knowledge acquired in multiple social sciences disciplines to operations of the work setting. Requires approval of the internship coordinator and the dean of Arts and Sciences.

59.498 Natural Sciences and

Mathematics Internship

1-9 semester hours

Internship provides on-site work experience and training program to give selected intern an opportunity to apply the theoretical and descriptive knowledge acquired in multiple natural sciences and mathematics disciplines to operations of the work setting. Requires approval of the internship coordinator and the dean of Arts and Sciences.

Department of Languages and Cultures

College of Arts and Sciences

Chairperson

Brigitte L. Callay

Professor

Allen F. Murphy

Associate Professors

Brigitte L. Callay

Blaise C. Delnis

Assistant Professors

Gilbert Darbouze

Patricia Dorame

Brenda Keiser

Paul W. Seaver

Jorge A. Topete

Instructor

Jing Luo

Degree Programs

Bachelor of Arts in French, Bachelor of Arts in German, Bachelor of Arts in Spanish

A total of 36 semester hours is required for a major in French.

A total of 36 semester hours is required for a major in Spanish.

The bachelor's degree program in German is under revision. Students should inquire in the department about new requirements.

Goals and Objectives

The Department of Languages and Cultures offers language instruction in eight languages: Chinese, French, German, Italian, Japanese, Latin, Russian, and Spanish. A student interested in a teaching career may elect French or Spanish as an area of specialization leading to a Bachelor of Science in Education. Courses in culture, civilization, oral expression, literature, and phonetics are included in the area of concentration. Students wishing to combine proficiency in languages and cultures with another major may elect a minor in either French or Spanish, as well as basic and intermediate courses in the other languages offered. Area concentrations in French, German, and Spanish are offered for students in early childhood education, elementary education, and secondary education.

As part of the department's mission in general education, the languages and cultures curriculum serves to enhance the quality of the students' liberal arts education with an international perspective. In addition to developing proficiency for communication with speakers of other languages, the program offers courses in culture and civilization taught in English to support the goals of global/cultural awareness and international education.

Required Courses for Bachelor of Arts in French

Required courses are: 10.203, 10.204, 10.205, 10.206, 10.207, 10.211, 10.325 (for students pursuing teaching certification), 10.402, 10.422, 10.423, and English 20.311 or 20.411.

Elective Courses for Bachelor of Arts in French

Electives should be chosen from French courses numbered above 10.204 with advisement.

Required Courses for Bachelor of Arts in Spanish

The following courses are required: Spanish 12.203, 12.204, 12.205, 12.206, 12.207, 12.211, 12.214, 12.331, 12.325 (for students pursuing teaching certification), 12.402, 12.421, and English 20.311 or 20.411.

Elective Courses for Bachelor of Arts in Spanish

Electives should be chosen from Spanish courses numbered above 12.204 with advisement.

Recommended General Education Courses

Other than the General Education distribution requirements, the department does not restrict the choice of courses in this area, however, students are encouraged to choose General Education courses in consultation with their advisers.

Placement

Students who have studied a language elsewhere should consult the department chairperson for appropriate placement. Generally, the student should schedule courses as follows:

- With no previous language study, schedule special sections of FL (Foreign Language) 101 for beginners, if schedule allows.
- With one year of high school study or equivalent, schedule FL 101.
- With two years of high school study or equivalent, schedule FL 102.
- With three years of high school study or equivalent, schedule FL 203.
- With four years of high school study or equivalent, schedule FL 204.

Individual Oral Practice

Tapes for language courses are available for individual practice in the language laboratory, located in Science Hall, Room 238.

Programs Abroad

All language students are urged to seek opportunities to study abroad. An exchange and internship program with the University of Nancy's Faculté des Lettres and the Commercial Institute in Nancy, France, brings French students to Bloomsburg University. It affords Bloomsburg University students in French, regardless of their major, to study at Nancy. French majors and/or business majors with a strong concentration in French, are especially encouraged to take part in this program.

On occasion, the department organizes a summer study-tour to France in conjunction with the Department of Art. Students also are encouraged to participate in accredited programs sponsored by other SSHE institutions and by other colleges and universities. The department chairperson should be consulted regarding study abroad plans.

Minors in French and Spanish

A minor is available in French and Spanish. Students should consult the chairperson. It is recommended that students who major and/or minor in French and Spanish also elect a curriculum in related fields such as a second foreign language, business, English, fine arts, history, philosophy, sociology, speech, and theater.

Early Childhood Education, Elementary Education, Secondary Education

Students majoring in early childhood education and elementary education may elect an area of concentration in French, German or Spanish. Students should consult their advisers in the Department of Languages and Cultures about course selection. It is recommended that courses in culture and civilization, oral expression, literature, phonetics, and FL in elementary school be taken to complete the area of concentration. The area of concentration for students in early childhood education and elementary education is under revision, and students should inquire about new requirements.

Requirements for a major leading to the Bachelor of Science in Education are found in the catalog's section on *Secondary Education*. Students in this program should also include a course in child psychology and a course in anthropology.

Language Awards

Outstanding Academic Achievement – awarded to any graduating senior who:

- a. Has a minimum QPA of 3.8 for all courses in the major (A student majoring in more than one language may be considered for an award in each language.);
- b. Has a minimum QPA in all work at the university of 3.5;
- c. Is recommended by the majority of the faculty of the major language.

Chairperson's Award – awarded to a senior majoring in a foreign language who:

- a. Has completed a minimum of 21 semester hours in the language;
- b. Excels in the language;
- c. Has rendered language-related service to the department and the university;
- d. Is recommended by the majority of the faculty of the major language.

FRENCH (Code 10)	prose, poetry, and songs for imitation. Not offered every semester. Prerequisite: 10.102 or equivalent
10.101 French I 3 semester hours Seeks to develop the four language skills and acquaint students with elements of Francophone culture. For students with no more than two years of French. Practice in the language laboratory required.	10.206 Structure of the French Language 3 semester hours Thorough study of grammar and syntax and use of idioms through applied exercises. Introduction to French Morphology. Not offered every semester. Prerequisite: 10.204 or equivalent
10.102 French II 3 semester hours Continuation of 10.101. Prerequisite: 10.101 or equivalent	10.207 Conversation: French Daily Life and Customs 3 semester hours Prepared and free speaking activities about everyday life and customs in Francophone countries. Not offered every semester. Prerequisite: 10.204 or equivalent or concurrently with 10.204 with consent of the chairperson
10.203 French III 3 semester hours Continuation of development of the four language skills. Emphasis on reading. Study of Francophone culture. Practice in the language laboratory. Prerequisite: 10.102 or equivalent	10.211 Foundations of French Culture and Civilization Fall 3 semester hours Reviews major developments of French culture from an historical point of view. Taught in English; knowledge of French unnecessary. Special projects for French majors.
10.204 French IV Fall 3 semester hours Continuation of 10.203. Emphasis on culture and oral communication skills. Practice in the language laboratory. Prerequisite: 10.203 or equivalent	10.212 France Today 3 semester hours Presents major aspects of life in France today. Taught in English; knowledge of French unnecessary. Special projects for French majors. Not offered every semester.
10.205 Applied Phonetics and Pronunciation 3 semester hours Analyzes French sound system. Drills on pronunciation and intonation. Selections of	

10.281 Special Topics

/10.289

1-3 semester hours

Provides knowledge and training in fields usually not covered in regular courses. Content determined by instructor and varies each time course is offered. Topics may include French for travelers, French gastronomy, Quebec culture. Not offered every semester.

10.290 French Studies Abroad

1-6 semester hours

Prerequisite: Minimum 2 semesters of French or equivalent.

10.295 Art and Culture of France

3 semester hours

Provides a study-tour of France with attention to French art as seen in relation to its social and cultural environment. Visits to places of artistic and cultural interest in and around Paris and the provinces. Not offered every semester.

Prerequisite: Consent of the instructor

10.309 Commercial French

3 semester hours

Acquisition of French business language and terminology in reading, writing, and speaking. Introduction to business correspondence. Not offered every semester.

Prerequisite: 10.204 or equivalent

10.325 French for Elementary School

3 semester hours

Methods and materials for teaching French in an elementary school including appropriate vocabulary, structures, and cultural items. Practical field experience in elementary school. Not offered every semester.

Prerequisite: 10.204 or equivalent or consent of the chairperson

10.331 Selected 20th Century Writers

Fall

3 semester hours

Students study French for reading knowledge; selected modern works.

Prerequisite: 10.204 or equivalent

10.401 Advanced French Language

3 semester hours

Presents a thorough review of phonology, morphology, syntax, and semantics. Not offered every semester.

Prerequisite: 10.206 or consent of the chairperson

10.402 Contemporary Issues in

Francophone Media

3 semester hours

Presents further development of language fluency through discussion of current topics and issues selected from francophone newspapers and magazines. Not offered every semester.

Prerequisite: 10.207 or equivalent

10.409 Commercial French II

3 semester hours

Studies French business life aiming at preparing students for internships in business in France, Quebec or a branch of a French company in the U.S. Reviews business correspondence. Not offered every semester.

Prerequisite: 10.309

10.422 Masterpieces of French Literature

3 semester hours

Studies the most significant writers and playwrights of France. Not offered every semester.

Prerequisite: 10.206 or consent of the chairperson

10.423 Black Francophone Writers

and Culture

3 semester hours

Presents major aspects of life in Black Francophone countries and major writers in those countries. Taught in French.

Prerequisite: 10.204 or consent of the chairperson

10.490 Independent Study in French

1-9 semester hours

Provides for individual study of a particular aspect of French civilization, language or literature under faculty supervision.

Prerequisites: Consent of the instructor and the chairperson

GERMAN
(Code 11)

Requirements and curriculum are under revision. For current details, inquire in department.

11.101 German I

3 semester hours

Develops the four language skills and acquaints students with elements of German-speaking cultures. For students with no more than two years of German. Practice in the language laboratory required.

11.102 German II

3 semester hours

Continuation of 11.101. Reading and writing given additional emphasis.

Prerequisite: 11.101 or equivalent

**11.121 German Authors of the
20th Century I**

3 semester hours

Examines works of major German authors such as Hesse, Brecht, Mann, Kafka, Dürrenmatt, and Boll. Taught in English; knowledge of German unnecessary. Readings in German and special projects for German majors. Not offered every semester.

**11.122 German Authors of the
20th Century II**

3 semester hours

Continuation of 11.121. Taught in English; knowledge of German unnecessary. Readings in German and special projects for German majors. Not offered every semester

11.203 German III

3 semester hours

Development of the four language skills. Basic grammar reviewed and new grammatical concepts presented. Reading and study of the culture given additional emphasis. Not offered every semester.

Prerequisite: 11.102 or equivalent

11.204 German IV

3 semester hours

Continuation of 11.203. Emphasizes culture and communication. Not offered every semester.

Prerequisite: 11.203 or equivalent

11.206 Grammar and Composition

3 semester hours

In-depth study of German grammar. Stresses application of grammatical principles in controlled and free written composition. Not offered every semester.

Prerequisite: 11.204 or equivalent

11.207 Conversation

3 semester hours

Daily life and customs in German-speaking countries. Emphasizes student participation in prepared and free-speaking activities on daily life in German-speaking cultures. Outside readings and oral reports assigned. Grammar reviewed when necessary. Not offered every semester.

Prerequisite: 11.204 or equivalent or concurrently with 11.104 with consent of the chairperson

**11.211 German Culture and
Civilization I**

3 semester hours

Provides an understanding of the geography, government, customs, education, arts, and history of the German-speaking countries, as well as a vivid sense of the current scenes in these countries. Taught in English; knowledge of German not required. Special projects for German majors. Not offered every semester.

**11.212 German Culture and
Civilization II**

3 semester hours

Continuation of 11.211. Taught in English; knowledge of German not required. Not offered every semester.

11.290 German Studies Abroad

1-6 semester hours

Prerequisite: Minimum of two semesters of German

11.403 Workshop

3 semester hours

Presents selected materials for practical use. Offered on demand only.

Prerequisite: 11.206 or 11.207

11.490 Independent Study in German

1-9 semester hours

Provides for individual study of a particular aspect of German civilization, language, or literature under supervision of a faculty member.

Prerequisite: Consent of the instructor and the chairperson

**SPANISH
(Code 12)**

12.101 Spanish I

3 semester hours

Develops the four language skills; acquaints students with elements of Hispanic culture. For students with no more than two years of Spanish. Practice in the language laboratory required.

12.102 Spanish II

3 semester hours

Continuation of 12.101. Reading and writing given additional emphasis.

Prerequisite: 12.101 or equivalent

12.203 Spanish III

3 semester hours

Continued development of four skills and culture. Increased emphasis on reading and writing.

12.204 Spanish IV

3 semester hours

Continuation of 12.203

Prerequisite: 12.203 or equivalent

12.205 Phonetics: Theory and Practice

3 semester hours

Seeks to improve student's ability to communicate effectively in spoken Spanish. Provides a detailed study of Spanish sound and intonation patterns through group and individual practice. Attends to individual pronunciation problems. Not offered every semester.

Prerequisite: 12.102 or equivalent

**12.206 Structure of the Spanish
Language**

3 semester hours

Study of Spanish grammar and syntax through applied exercises and introduction to Spanish morphology. Not offered every semester.

Prerequisite: 12.204 or equivalent

**12.207 Conversation: Hispanic Daily
Life and Customs**

3 semester hours

Emphasizes student participation in prepared and free-speaking activities about everyday life and customs in Spanish-speaking countries. Not offered every semester.

Prerequisite: 12.204 or equivalent or concurrently with 12.204 with consent of the chairperson

**12.208 Conversation for Health
Professionals**

3 semester hours

Emphasizes development of speaking and comprehension for communication with Spanish-speaking clients in a health care setting. For health services students and other interested persons. Not offered every semester.

Prerequisite: 12.204 or equivalent

**12.211 Spanish Culture and Civilization
Fall**

3 semester hours

Provides an understanding of Spain through geography, education, customs, fine arts, and history. Taught in English; knowledge of Spanish not required. Special projects for Spanish majors.

12.212 Spanish-American Culture and Civilization

Spring 3 semester hours

Provides an understanding and appreciation of the present and past life of the Spanish-American Republics. Studies Aztec, Maya, and Inca cultures using films and outside readings. Taught in English; knowledge of Spanish language not required.

12.214 The Hispanic World Today

3 semester hours

Provides an understanding and appreciation of the present Spanish-speaking world, in both Spain, Spanish-American countries, and Spanish-speaking groups in the U.S. through geography, history, economics, politics, education, customs, and fine arts. Taught in Spanish for Spanish majors and other interested people. Not offered every semester.

Prerequisite: 12.204 or consent of instructor

12.281 Special Topics

/12.289 1-3 semester hours

Provides knowledge and training in fields not usually covered in regular courses. Content is determined by instructor and varies. Topics may include Spanish for Travelers and Women in Spanish Literature. Not offered every semester.

Prerequisite: Varies according to the nature of the topic

12.290 Spanish Studies Abroad

1-6 semester hours

Prerequisite: Minimum two years of Spanish

12.306 Structure and Composition

3 semester hours

Review of syntax and structure with application in composition. Not offered every semester

Prerequisite: 12.206 or consent of instructor

12.309 Commercial Spanish

3 semester hours

Acquaints students with basic skills in Spanish trade correspondence and commercial

reading. Emphasizes vocabulary and commercial idioms. Stresses elementary knowledge of commercial life and methods. For business students and others who desire to enhance their knowledge of Spanish. Not offered every semester.

Prerequisite: 12.204 or an equivalent proficiency

12.325 Spanish for Elementary School

3 semester hours

Methods and materials for teaching Spanish in elementary school including appropriate vocabulary, structures, and cultural items. Not offered every semester.

Prerequisite: 12.204 or an equivalent proficiency

12.331 Selected 20th Century Writers

3 semester hours

Reading and discussion of selected modern works. Not offered every semester.

Prerequisite: 12.207 or an equivalent proficiency

12.402 Issues in the Hispanic Media

3 semester hours

Provides for further development of language fluency through discussion of a variety of topics and current issues in Hispanic media. Activities requiring the use of the spoken language. Student participation emphasized. Not offered every semester.

Prerequisite: 12.207 or an equivalent proficiency

12.421 Hispanic Prose

3 semester hours

Reading and discussion of prose works by selected Spanish and Spanish American writers, concentrating on 20th century authors. Taught in Spanish. Not offered every semester.

Prerequisite: 12.207 or an equivalent proficiency

12.422 Hispanic Theater and Poetry

3 semester hours

Reading and discussion of plays and poetry by

selected Spanish and Spanish American writers, concentrating on 20th century authors. Taught in Spanish. Not offered every semester.

Prerequisite: 12.207 or an equivalent proficiency

12.430 Short Story

3 semester hours

Acquaints students with the short story as an expression of culture by Spanish, Spanish American, Chicano, and Puerto Rican authors and sensitizes students to cultural values in the Hispanic world. Not offered every semester.

Prerequisite: 12.207 or an equivalent proficiency

12.490 Independent Study in Spanish

1-9 semester hours

Provides for individual study of a particular aspect of Hispanic civilization, language, or literature under the supervision of a faculty member.

Prerequisites: Consent of the instructor and the chairperson

RUSSIAN

(Code 13)

13.101 Russian I

Fall

3 semester hours

Develops the four language skills and studies elements of Russian culture. Practice in language laboratory required.

13.102 Russian II

Spring

3 semester hours

Continuation of 13.101.

Prerequisite: 13.101 or equivalent

13.103 Russian III

3 semester hours

Continued development of four skills. Emphasis on Reading and Culture. Not offered every semester.

Prerequisite: 13.102

13.104 Russian IV

3 semester hours

Continuation of 13.103. Not offered every semester

Prerequisite: 13.103

13.290 Independent Study in Russian

1-9 semester hours

Individual study of a particular aspect of Russian civilization, language, or literature under faculty supervision.

Prerequisite: Consent of the instructor and the chairperson.

ITALIAN

(Code 14)

14.101 Italian I

3 semester hours

Develops the four language skills and studies the Italian culture. Stresses basic grammar. Not offered every semester.

14.102 Italian II

3 semester hours

Continuation of 14.101. Emphasizes reading and writing. Not offered every semester.

GENERAL

(Code 16)

The sequence of courses in Japanese is not offered every semester. Students should inquire in the Department of Languages and Cultures.

16.101 Self-Instructional Learning

Program in Japanese I

3 semester hours

16.102 Self-Instructional Learning

Program in Japanese II

3 semester hours

16.103 Self-Instructional Learning

Program in Japanese III

3 semester hours

16.104 Self-Instructional Learning

Program in Japanese IV

3 semester hours

16.105 Chinese I

3 semester hours

Basic elements of Mandarin Chinese, with emphasis on spoken language. Introduction to the Chinese culture. Practice sessions in language laboratory required. Not offered every semester.

16.106 Chinese II

3 semester hours

Continuation of 16.105. Begin study of the Chinese characters. Practice sessions in language laboratory required. Not offered every semester.

Prerequisite: 16.105 or equivalent

16.109 Language for Singing

1 semester hour

Practice and acquisition of correct pronunciation in French, German, and Italian for voice majors and students singing in choirs. Spanish upon demand. Not offered every semester.

16.211 Chinese Culture and Civilization I

Fall

3 semester hours

Chinese culture and civilization in historical perspective, with emphasis on art and philosophy. Taught in English.

16.212 Chinese Culture and Civilization II

Spring

3 semester hours

Chinese culture and civilization today, with focus on art, political philosophy, customs, and new directions. Taught in English.

16.400 Study Abroad

1-8 semester hours

By consent of the chairperson.

**LATIN
(Code 18)**

18.101 Latin I

3 semester hours

Develops reading and writing skills; emphasizes correct classical pronunciation. Introduction to Roman culture and civilization. Not offered every semester.

18.102 Latin II

3 semester hours

Continuation of 18.101. Develops reading and translation skills; teaches classical references through selected readings. Not offered every semester.

Prerequisite: 18.101 or equivalent

Faculty Credentials

BRIGITTE L. CALLAY

B.A., M.A., University of Delaware; Ph.D., University of Louvain, Belgium

GILBERT DARBOUZE

B.A., M.A., City College of New York; Ph.D., Graduate School and University Center-CUNY

BLAISE C. DELNIS

A.B., Lukow Lycee; M.A., Fordham University

PATRICIA DORAME

Lic. in Spanish Lit., University of Veracruz, Mexico; Ph.D., University of Texas at Austin

BRENDA KEISER

B.A., Kutztown State College; M.A., Middlebury College; Ph.D., University of Pennsylvania

JING LUO

M.A., Beijing University, China

ALLEN F. MURPHY

A.B., Kenyon College; M.A., Ph.D., The Ohio State University

PAUL W. SEAVER

B.S.Ed., Kent State University; M.A., The University of Connecticut; Ph.D., University of Maryland

JORGE A. TOPETE

A.M., Ph.D., University of Pennsylvania

Department of Marketing and Management

College of Business

Chairperson

Charles M. Chapman

Professors

M. Ruhul Amin

Peter B. Venuto

Melvyn L. Woodward

Associate Professors

Mainuddin Afza

Charles M. Chapman

Francis J. Gallagher

Howard J. Kinslinger

Mark Larson

Stephen J. Markell

Minoo Esmaila-Tehrani

Pamela M. Wynn

Degree Program

Bachelor of Science in Business Administration

A total of 63 semester hours is required for a major in business administration. This degree program offers specializations in accounting, business economics, finance, management information systems, management, and marketing.

Goals and Objectives

The curriculum in business administration develops specialized knowledge and skills applicable to entry into the business world and provides the opportunity to prepare for advanced studies in business. To achieve these aims, the curriculum is dedicated to those educational ideals that increase the student's understanding of business practices, develop specialized occupational skills, and enhance analytical and scholarly development. The business person's role and the place and purpose of the business firm in society are matters for constant study and evaluation. A concern for personal development in the attributes of intellectual discipline and ethical values is integrated into the general education and business courses.

Specialization in Management

Management—15 semester hours are required for specialization in management. Courses include: Computer and Information Systems 92.254; Management 93.345, 93.449, and 93.457; and 3 semester hours of a business elective.

Required Courses

Required courses include: Economics 40.211, 40.212, 40.246, and 40.346 or Mathematics 53.118; 53.123; Accounting 91.220 or 91.221 (for accounting and computer and information science majors), 91.223; Computer and Information Systems 92.150; Management 93.344, 93.445, and 93.446; Finance 96.313; Marketing 97.310; and Business Law 98.331.

General Education Courses

English 20.101 and 20.201 are required as General Education courses for the six specializations in the business administration degree program.

Elective Courses

Select courses in business and economics to complete a minimum of 63 semester hours. Elective courses are designated with a 91, 92, 93, 96, 97, 98 prefix for business courses and a 40 prefix for economics courses. Additional courses permitted as electives include: Speech Communication 25.307; History 42.223 (a substitute for 42.224 and 40.423), 42.472; and General Business 90.101, 90.241, 90.431, and 90.432.

Note: 90.101 will not be allowed for credit as a business elective once a student has completed 6 semester hours in business administration courses.

In selecting an elective, the student is reminded to have the proper prerequisites and to avoid elected courses below that level for which the student has already been prepared in that subject field.

Free Electives

Select free elective courses as needed to meet the 128 semester hours required for graduation.

MANAGEMENT (Code 93)

93.344 Principles of Management

3 semester hours

Outlines fundamentals of organization and administration. Classical, behavioral, and management science schools; principles and practices in planning, organizing, and controlling business activities; and operating functions in a business firm are presented.

Prerequisite: 40.212

93.345 Human Resource Management

3 semester hours

Presents policies and current practices in the recruitment, selection, training development, evaluation, and compensation of employees in an organizational setting. These are examined within the context of internal and external environmental constraints with special attention to government regulations.

Prerequisites: Junior standing, Computer and Information Systems 92.150 or equivalent

93.346 Labor and Industrial Relations

3 semester hours

Describes administration of the relationship between management and the labor force, both where that relationship is governed by a collective bargaining agreement and where it is not. Includes development of the social and legal status of trade unions, organizing, negotiations, strikes, grievance procedure, and union security.

93.348 Operations Management

3 semester hours

Introduces operation problems encountered

in manufacturing and service industries.

Prerequisites: 93.344, Economics 40.246 or Mathematics 53.123

93.432 Internship in Management

3-6 semester hours

Prerequisites: 93.344, QPA of 2.50, Junior or Senior standing

93.440 Small Business Institute Seminar

1-3 semester hours

Teams of students work with local businesses in a consultancy capacity to aid in the resolution of actual business problems. Work includes analysis of a problem, determination of alternative solutions, recommendation of the optimum course of action by means of an oral presentation to business owners, and a written report to the regional office of the Small Business Administration.

93.445 Managerial Communications

3 semester hours

Studies the process and structure of communication in the business organization and factors affecting the flow of information. Emphasizes verbal, nonverbal, and written communication as they relate to managerial responsibility. Group discussion exercises and individual research and writing projects relate these principles to the attainment of proficiency in managerial communication.

Prerequisites: 93.344, Marketing 97.310, and Junior standing

93.446 Business Policies and Strategies

3 semester hours

Studies the process by which management sets goals, objectives, policies, and procedures.

Prerequisites: 93.344, Finance 96.313, Marketing 97.310, and Senior standing

93.449 Organizational Behavior

3 semester hours

Focuses on small group, interpersonal, and intergroup processes in organizations. Integrates experiential case and traditional methods of instruction.

Prerequisite: 93.344

93.457 Business and Society

3 semester hours

Relates the American business system and individual business firms to the cultural and economic environment. Examines the powers and responsibilities of the business system as a major institution within society as well as

individual business firms in the same society. Addresses social responsiveness and ethics.

Prerequisites: 93.344, Finance 96.313, Marketing 97.310, and Senior standing

93.456 International Management

3 semester hours

Surveys management parameters, principles and practices of the global business. Examines the constraints, contingencies, and strategies of international business. Focuses on planning, organizing, coordinating, and control aspects of multinational organizations with special reference to the unique problems and solutions of joint ventures.

Faculty Credentials

MAINUDDIN AFZA

B. Com (H), University of Rajshahi; M. Com, University of Rajshahi; M.B.A., Youngstown State University; Ph.D., National Academy of Science, Yerevan, Armenia, USSR

M. RUHUL AMIN

HSC, Dhaka Government College, Bangladesh; B.A. (H), M.A., The University of Dhaka; M.A., D.P.A., Carleton University; M.A., Ph.D., The University of Akron

CHARLES M. CHAPMAN

B.A., University of Northern Colorado; M.A., New York University

FRANCIS J. GALLAGHER

A.B., Stonehill College; M.B.A., Temple University

HOWARD J. KINSLINGER

A.B., Brandeis University; M.B.A., The City College of New York; Ph.D., Purdue University

MARK LARSON

B.S., University of Iowa; M.A., Ph.D., The Ohio State University

STEPHEN J. MARKELL

B.A., SUNY at Albany; M.A., Ph.D., University of North Carolina at Chapel Hill

MINOO ESMAILI-TEHRANI

Michigan Tech University; B.S., Pahlavi University, Shiraz, Iran; M.S., Arizona State University

PETER B. VENUTO

B.A., Syracuse University; M.B.A., Ph.D., University of Santa Clara

MELVYN L. WOODWARD

A.B., Bucknell University; M.B.A., Ph.D., The Ohio State University

PAMELA M. WYNN

B.A., M.A., Ph.D., University of Texas at Arlington

Department of Computer and Information Systems

College of Business

Chairperson
Harold K. Frey

Gene M. Gordon
Charles J. Hoppel

Professor
Frank S. Davis Jr.

Assistant Professors
Patricia M. Boyne
John E. Hartzel

Associate Professors
James S. Dutt
Harold K. Frey

Degree Program

Bachelor of Science in Business Administration

A total of 66 semester hours is required for a major in business administration. This degree program offers specializations in accounting, business economics, finance, management information systems, management, and marketing.

Goals and Objectives

The curriculum in business administration develops specialized knowledge and skills applicable to entry into the business world and provides the opportunity to prepare for advanced studies in business. To achieve these aims, the curriculum is dedicated to those educational ideals that increase the student's understanding of business practices, develop specialized occupational skills, and enhance analytical and scholarly development. The business person's role and the place and purpose of the business firm in society are matters for constant study and evaluation. A concern for personal development in the attributes of intellectual discipline and ethical values is integrated into the general education and business courses.

Specialization in Management Information Systems

A total of 24 semester hours is required for specialization in Management Information Systems. The following Computer and Information Systems courses are required: 92.177, 92.251, 92.252, 92.254, 92.256, 92.351, 92.352, and 92.456. For descriptions of Code 92 courses see the catalog heading *Computer and Information Science*.

Required Courses

Required courses for this degree program include: Economics 40.211, 40.212, 40.246, and 40.346 or Mathematics 53.118; 53.123; Accounting 91.220 or 91.221 for Accounting and Computer and Information Science majors; 91.223; Computer and Information Systems 92.150; Management 93.344, 93.445, and 93.446; Finance 96.313; Marketing 97.310; and Business Law 98.331.

General Education Courses

English 20.101 and 20.201 are required as General Education courses for the six specializations in the business administration degree program.

Elective Courses

Select courses in business and economics to complete a minimum of 63 semester hours. Courses designated with a 91, 92, 93, 96, 97, 98 prefix are business courses and those with a 40 prefix are economics courses. Additional courses permitted as electives include: Speech

Communication 25.307; History 42.223 (a substitute for 42.224 and 40.423), 42.472; and General Business 90.101, 90.241, 90.431, and 90.432.

Note: 90.101 will not be allowed for credit as a business elective once a student has completed 6 semester hours in business administration courses.

In selecting an elective, the student is reminded to have the proper prerequisites and to avoid elected courses below that level for which the student has already been prepared in that subject field.

Free Electives

Select free elective courses as needed to meet the 128 semester hours required for graduation.

Faculty Credentials

PATRICIA M. BOYNE

B.A., Ladycliff College; M.S., The Pennsylvania State University; CDP

FRANK S. DAVIS

B.S., M.Ed., Shippensburg State College; Ph.D., University of Pittsburgh

JAMES S. DUTT

B.S., M.S., Ph.D., The Pennsylvania State University

HAROLD K. FREY

B.S., Lock Haven State College; M.A., State College of Iowa; M.S., Elmira College

GENE M. GORDON

B.A., Southampton College; M.A., Antioch University; Ed.D., University of Massachusetts

JOHN E. HARTZEL

B.S., Bloomsburg State College; M.Ed., Lehigh University

CHARLES J. HOPPEL

B.S., University of Scranton; M.E.E., Ph.D., Syracuse University

Department of Marketing and Management

College of Business

Chairperson

Charles M. Chapman

Associate Professors

Stephen S. Batory

Mary K. Ericksen

Salim Qureshi

Nurur Rahman

Robert N. Watts Jr.

Degree Program

Bachelor of Science in Business Administration

A total of 63 semester hours is required for a major in business administration. This degree program offers specializations in accounting, business economics, finance, management information systems, management, and marketing.

Goals and Objectives

The curriculum in business administration develops specialized knowledge and skills applicable to entry into the business world and provides the opportunity to prepare for advanced studies in business. To achieve these aims, the curriculum is dedicated to those educational ideals that increase the student's understanding of business practices, develop specialized occupational skills, and enhance analytical and scholarly development. The business person's role and the place and purpose of the business firm in society are matters for constant study and evaluation. A concern for personal development in the attributes of intellectual discipline and ethical values is integrated into the general education and business courses.

Specialization in Marketing

Marketing—21 semester hours are required for specialization in marketing. Courses include: 97.360, 97.370, 97.430, 97.440, 97.460, 97.490, and 3 semester hours of a marketing elective.

Required Courses

Required courses include: Economics 40.211, 40.212, 40.246, and 40.346 or Mathematics 53.118; 53.123; Accounting 91.220 or 91.221 (for accounting and computer and information science majors), 91.223; Computer and Information Systems 92.150; Management 93.344, 93.445, and 93.446; Finance 96.313; Marketing 97.310; and Business Law 98.331.

General Education Courses

English 20.101 and 20.201 are required as General Education courses for the six specializations in the business administration degree program.

Elective Courses

Select courses in business and economics to complete a minimum of 63 semester hours. elective courses are designated with a 91, 92, 93, 96, 97, 98 prefix for business courses and a 40 prefix for economics courses. Additional courses permitted as electives include: Speech Communication 25.307; History 42.223 (a substitute for 42.224 and 40.423), 42.472; and General Business 90.101, 90.241, 90.431, and 90.432.

Note: 90.101 will not be allowed for credit as a business elective once a student has completed 6 semester hours in business administration courses.

In selecting an elective, the student is reminded to have the proper prerequisites and to avoid elected courses below that level for which the student has already been prepared in that subject field.

Free Electives

Select free elective courses as needed to meet the 128 semester hours required for graduation.

MARKETING (Code 97)

97.310 Marketing: Principles and Practice

3 semester hours

Surveys the fundamental features of contemporary marketing systems and the planning required to make available satisfying goods and services to customers at a profit. Explains the role of marketing in society and the institutions which compose the market system. Describes components of the marketing mix-product planning, distribution, pricing, and promotion.

Prerequisite: Economics 40.212

97.320 Marketing for Nonprofit Organizations

3 semester hours

Hospitals, social service agencies, universities, clubs, fraternities and sororities, political candidates, governments, churches, and libraries are some of the nonprofit organizations which are challenged to effectively solve their marketing problems. Through understanding and by applying established marketing theory, techniques, and methods, students realize how they can aid organizations in developing a better product, price, distribution, and promotion decisions for the publics they seek to serve.

Prerequisite: 97.310

97.350 Retail Management Concepts

3 semester hours

Presents retailing as a dynamic aspect of the marketing distribution system. Ultimate consumer/marketing analysis, store location, store layout, merchandising, pricing, promotional issues, and problems are considered using retail cases.

Prerequisites: 97.310, Economics 40.212

97.360 Advertising Management: Organization and Planning

3 semester hours

Studies the personal selling element of the marketing/promotional program from a management perspective. Recruiting, selecting, training, organizing, motivating, compensating, evaluating, and controlling the sales force are treated, as well as management's planning responsibilities, which include designing intelligence systems, and forecasting and establishing sales territories. Special consideration is given to sales management's inputs and integration with marketing management.

Prerequisite: 97.310

97.370 Sales Management

3 semester hours

Studies the personal selling element of the marketing/promotional program from a management perspective. Recruiting, selecting, training, organizing, motivating, compensating, evaluating, and controlling the sales force are treated, as well as management's planning responsibilities which include designing intelligence systems, forecasting and establishing sales territories. Special consideration is given to sales management's inputs and integration with marketing management.

Prerequisite: 97.310

97.410 International Marketing Management

3 semester hours

Applies the managerial process to the development of international marketing programs. Emphasizes the development and determination of objectives and methods of organization including the execution of research, advertising, and distribution activities. Considers special problems of adopting marketing principles to fit conditions in different countries. Selected cases and readings.

Prerequisite: 97.310

97.430 Consumer Behavior

3 semester hours

Analyzes the role of the consumer as the ultimate buyer of the product and the strategy and forces directed at the consumer by the seller. Topics include models of consumer buying behavior, consumer motivation, impact of advertising on product, and consumer as decision maker in the market place. Reviews selected cases.

Prerequisite: 97.310

97.432 Internship in Marketing

3-6 semester hours

Prerequisites: 97.310, 2.50 QPA, and Junior or Senior standing

97.440 Marketing Research

3 semester hours

Develops the skills of the scientific marketing research procedure (problem definition, research design, data collection, analysis, and interpretation). Applies recent developments in marketing information systems to product planning, planning, advertising research, consumer and competitive analysis.

Prerequisites: 97.310 and Economics 40.346

97.460 Marketing Management

3 semester hours

Presents an advanced study of the marketing programs from the systems and managerial viewpoint. Applies analytic, communicative, and problem-solving skills to evaluation and creative planning in the marketing environment. Uses business marketing cases as a vehicle for developing the marketing executive's abilities.

Prerequisite: 97.310

97.490 Contemporary Problems/Issues in Marketing

3 semester hours

Explores major issues, trends, and problems characterizing the current marketing scene. Encourages students to do extensive reading in current marketing and other related literature. Theoretical, environmental research, and trade-off issues in marketing are assessed. Case study, group projects, and group dynamics are utilized.

Prerequisites: Senior standing and 6 semester hours in marketing

Faculty Credentials

STEPHEN S. BATORY

B.S., King's College; M.B.A., Old Dominion University; D.B.A., University of Maryland

MARY K. ERICKSEN

B.S., M.S., The Ohio State University; Ph.D., Virginia Polytechnic Institute & State University

SALIM QURESHI

B.S., University of Karachi; M.B.A., Adelphi University; Ph.D., The Union Graduate School of Ohio

NURUR RAHMAN

B. Com (H). Dhaka University, Bangladesh; M. Com, Dhaka University, Bangladesh; M.B.A., Indiana University; M.A., Ph.D., Ohio State University

ROBERT N. WATTS JR.

B.S., Susquehanna University; M.B.A., Ohio University

Department of Mass Communications

College of Arts and Sciences

Chairperson

Dana R. Ulloth

Professors

Walter M. Brasch
Dana R. Ulloth

Associate Professors

William A. Acierno
Maria Teresita G. Mendoza-Enright
Tamrat Mereba

Degree Program

Bachelor of Arts in Mass Communications

A total of 33 to 38 semester hours is required for a major in mass communications.

For information on the Bachelor of Science in Education which offers an area of specialization in communications/media, see the section in the catalog on *Secondary Education*.

Goals and Objectives

The mass communications program is designed to balance the needs for broad knowledge of the liberal arts and natural sciences, professional preparation, and understanding of the critical and theoretical issues confronting people employed within the media. To achieve the first of these three goals, majors are expected to take at least 90 semester hours outside the department spread widely among the other departments of the College of Arts and Sciences.

Courses within the department fulfill the second two goals by representing a balance of professional preparation (e.g., Newswriting), Broadcast Journalism, Public Relations Cases and Problems, and Theoretical issues (e.g., Film History, Media Law, and Social Foundations of Mass Communications).

Most core courses focus attention on the social, political, and legal issues that reporters, producers, managers, and technical personnel must confront. The track courses provide the professional foundation needed to function in the fast paced media environment.

The internship experience in an appropriate off-campus site completes the professional training needed to enter the job market.

Admission Requirements

Admission to the mass communications program is by application to the chair and is limited to the maximum enrollment each semester that can be reasonably accommodated by departmental resources. Annual intake is limited to approximately 50 students who should have achieved a cumulative grade point average of 2.5 or higher. Acceptance into the program depends, however, not only on the QPA, but also on past experience and potential. Students should exhibit strong writing, visual, and creative qualities and a record of interest and participation in media-related extracurricular activities. Some variations also occur to help balance the number of students seeking entrance to each of the three major tracks available in mass communications. Students are, therefore, encouraged to make a case for their admission in the light of previous experience even if they feel their QPAs may not alone justify admission. Students will be notified of their acceptance as mass communications majors as quickly as possible. Students are expected to have declared their majors no later than the time they have accumulated approximately 72 semester hours.

The major in mass communications consists of a number of core courses, which are compulsory for all students and a series of sequence or major track courses, depending on the specialties students wish to study. The major consists of 18 semester hours in core subjects and a minimum of 15 to 21 hours in specialty sequence subjects. Requirements may vary in each

track, and students should ensure they are certain of the minimum requirements needed to graduate.

Students who wish to become mass communications majors must file a specific application with the department chairperson, submit with this application a copy of their latest transcripts, indicate which of the major sequences they propose to study, and present a portfolio of writing or production samples in one of the mass communications areas.

Note: This selection is not binding and may be changed. Students are advised to discuss the study tracks with their advisers to assure that course selections will count toward their final objectives.

Required Courses

27.230 Newswriting, 27.310 Media Law, 27.315 Social Foundations of Mass Communications, 27.320 Media Theory or 27.415 Mass Communications Technologies, and either Mass Communications Technologies or a research course or a statistics course.

Major Tracks

Students also must select a major sequence track from one of the following: journalism, public relations/advertising, or telecommunications. Students may also take courses for a second sequence and all mass communications majors are advised to study several courses in an area other than their major sequence.

The following sequence courses are required to make up the 15 to 21 semester hours required in addition to the 18 semester hours from the core sections. Students should note that sequence courses frequently have prerequisites and, therefore, they need to plan their studies to allow for these to be taken prior to enrollment in sequence courses. The departmental listing of courses indicates each prerequisite.

Journalism

27.334 Editing, 27.340 Feature Writing, 27.350 Public Affairs Reporting, 27.435 Special Topics, 27.446 Magazine Editing and Production, and 27.497 Mass Communications Internship

Public Relations/Advertising

25.315 Persuasion, 27.251 PR: Theory and Practice, 27.261 Principles of Advertising, 27.340 Feature Writing, 27.352 Publicity and Public Relations, 27.366 Design in Advertising, 27.455 Public Relations Cases and Problems, 27.466 Advertising Media and Campaigns, 32.250 Design I; 97.430 Consumer Behavior

Telecommunications/Film

26.211 Theater Production, 27.371 Broadcast Journalism, 27.375 Broadcast Programming and Management, 27.388 TV Acting and Directing, 27.390 Film and Video Production, 27.482 Telecom Seminar, 97.310 Marketing, 93.345 Personnel Management or 93.310 Marketing

Practicums and Internships

Students are required to participate in practicums and internships during which they are expected to practice the technical requirements of their specialties. Semester hours earned are in addition to the core and specialty areas. Internships are available on and off campus; some are paid. Students are urged to take both an off-campus and an on-campus practicum to be as well prepared technically as possible. Some practicums and internships are available on student productions such as *The Voice*, Bloom News, Spectrum magazine, and a range of other campus communications activities.

MASS COMMUNICATIONS (Code 27)

Cocurricular activities — Association of Public Relations Students; Society of Collegiate Journalists; Society of Professional Journalists

27.110 Mass Communications and the Popular Arts

3 semester hours

A comprehensive overview of mass communications and their relative impacts on society and culture. Covers magazines, newspapers, motion pictures, radio, television, public relations, advertising, ethical codes, and media regulations. Not applicable toward a major in mass communications.

27.190 History of Film

Spring

3 semester hours

An overview of the history and growth of the motion picture. Studies film genres, historical figures, technicians, and performers. Students must view approximately 15 films during the course in laboratory showings.

27.230 Newswriting

3 semester hours

A practical course that outlines the "theory" and techniques of news reporting. It includes an outline of the historical development of reporting, its practices and principles, and the organizational patterns of news stories and gathering of news. An elementary outline of defamation and libel is included. Student should be able to type 30 to 40 words per minute before enrolling in this course.

27.251 PR: Theory and Practice

3 semester hours

An introduction to the development, principles, theories, and practice of public relations as a social and organizational implement. Looks briefly at the communication process, publicity, community relations, and public affairs practice.

27.261 Principles of Advertising

3 semester hours

Introduces students to the basic objectives and procedures of advertising in a modern economy. Examines the variety of components and methods used to achieve specific objectives in advertising campaigns and the type of instruments used for advertising.

27.270 Contemporary Radio and Television

3 semester hours

Provides a survey of contemporary radio and television as an industry, an art, and a technology. Includes some laboratory-type work in the classroom.

27.271 Media Operations

3 semester hours

Concentrates on the knowledge and physical use of technical requirements that operate the growing range of equipment needed to produce contemporary radio, television, and video programs.

27.285 Cinema Appreciation

Fall

3 semester hours

Examines film form, theory, and criticism to bring about a better understanding and greater appreciation of the motion picture. Enhances the visual appreciation required in modern media. Approximately 15 films viewed.

27.297 Mass Communications

Practicum

0-1 semester hour

Requires participation in film, television, radio or print productions in any of the sequences offered in the department or others on campus having similar needs relevant to mass communications. Participation required for two semesters to receive 1 semester hour. May be repeated for a maximum of 3 semester hours.

27.310 Media Law

3 semester hours

A survey of legal restraints that influence the

nature and content of mass media messages and business practices. Covers historical developments, criminal libel, sedition, defamation, privacy, copyright, obscenity, shield law, freedom of information, free press-free trial, unique broadcast policies, advertising, and antitrust problems.

27.315 Social Foundations of Mass Communications

3 semester hours

An interdisciplinary study of the historical, philosophical, social, economic, and legal foundations of American mass media as a base for study of contemporary mass media. Course looks at media from the perspective of journalists, owners, audience, and government.

27.320 Media Theory

3 semester hours

Course locates specific issues in classical sociological and psychological theories and links them to mass communications, identifying various ways in which individuals and the whole of society depends on information provided by mass communications. **Experimental course.**

Prerequisites: Junior standing and 27.315

27.334 Editing

3 semester hours

Improves writing for newspapers, magazines, and brochures. Indicates particular types of styles most used; the need for good, tight copy in news stories; the practice of headline writing, with some elementary layout and design experience including photo editing. Suggests some defenses to possible defamation and libel problems for copy editors.

Prerequisite: 27.230

27.335 Mediagraphics

3 semester hours

Course in computer-generated design and lay-out problems and applications for printed and visual material including newspaper and magazine pages as well as advertising layouts and visual presentations for video and televi-

sion material. *Experimental course.*

Prerequisite: 27.334

27.340 Feature Writing

3 semester hours

Outlines basic requirements for feature-type articles for newspapers and magazines. Studies various techniques used to gather information and to develop a range of feature articles. Course includes significant practical work as well as the study and discussion of published articles and marketing strategies.

Prerequisite: 27.230

27.352 Publicity and Public Relations

3 semester hours

Comprehensive study of various publicity techniques used in public relations efforts of business, government, and nonprofit organizations. Students prepare press releases, public service announcements, speeches, slide programs, or other appropriate communication vehicles.

Prerequisite: 27.251

27.366 Design in Advertising

3 semester hours

Principles of advertising layout and design in print and broadcasting. Includes hands-on experience in layout, typography, and paste-up in addition to theory.

Prerequisite: 27.261

27.371 Broadcast Journalism

3 semester hours

Studies technical elements of broadcast writing, script formats, and nondramatic material. It provides opportunities to study, write, and announce news, commercials, and similar broadcast material.

Prerequisite: 27.270

27.375 Broadcast Programming and Management

3 semester hours

Studies television and radio management, programming, and each medium as a business and the elements of success or failure. Studies some basic economics of media and methods

of handling this material as well as codes, laws, and community interests.

Prerequisite: 27.371

27.388 Television Acting and Directing

3 semester hours

Provides instruction in acting and directing for television. Includes laboratory hours.

Prerequisite: 27.271

27.390 Film and Video Production

3 semester hours

Reviews the basic processes of filmmaking in an introductory but comprehensive manner. Concentrates on making short silent films and requires laboratory hours and field work by arrangement. Students provide their own film stock for shooting, and pay film processing costs.

Prerequisite: 27.271

27.415 Mass Communication

Technologies

3 semester hours

A review of modern communications technologies such as computers, satellites, cable television, digital, electronic publishing, networking, compact disc, and videocassette machines. Covers the applications, economics, legal, business, and social problems of new technology. **Experimental course.**

Prerequisite: 27.270

27.435 Journalism Seminar:

Special Topics

3 semester hours

Studies a variety of ethical and practical problems in journalism. Topics may vary each semester. May be repeated with different topics to a maximum of three seminars with approvals of adviser and chairperson.

Prerequisite: 27.230

27.446 Magazine Editing and Production

4 semester hours

A full-spectrum course designed to acquaint students with principles and techniques of magazine production including manuscript selection and editing, advertising, design, production, circulation, promotion, and

various business operations. Study of the nature of magazines as part of a mass communications system is included. Each semester students produce a community/regional consumer magazine.

Prerequisites: 27.334, 27.340, and consent of the instructor

27.450 Public Affairs Reporting

4 semester hours

An advanced reporting course on the role of public affairs in news reporting in mass media. Concentrates on a number of governmental "beats" most susceptible to news generation. Students learn basic abilities consistent with entry-level professional reporting requirements in public affairs coverage including courts, police, and government.

Prerequisite: 27.340

27.455 Public Relations Cases and

Problems

3 semester hours

A study of the use of publicity as a particular element of public relations. Examines specific publicity cases and also requires practical hands-on production of written material.

Prerequisite: 27.352

27.466 Advertising Media and Campaigns

3 semester hours

Study of the use of advertising media, methods of selection, and the skills and background required for media buying and traffic planning. Basic principles and applications of advertising research and campaign planning, preparation, and presentation are taught in a problem-solving format.

Prerequisites: 27.364 and 27.366

27.478 Independent Study

1-3 semester hours

Provides for individual work and study on an area of mass communications concentration. Student find a faculty sponsor/adviser and prepare a written proposal, which must have departmental approval and approval of the dean, College of Arts and Sciences.

Prerequisite: 27.470

**27.480 Telecom Production Workshop:
Special Topics**

3 semester hours

A practical workshop program in which telecommunications majors will undertake specific instruction on the technical aspects of their major. Topics may change from semester to semester, and students may be required to work on specific projects, such as telethons or television news, as part of their workshop programs. Workshops may be repeated provided topics change. Instructor's and department chairperson's approvals required.

Prerequisite: 27.415

27.482 Telecom Seminar

3 semester hours

A seminar program that studies ethical and social problems resulting from the pervasiveness of new technologies. Topics may change from semester to semester. Students may repeat seminars, subject to a change in topic and with the approvals of the instructor and department chairperson.

Prerequisite: 27.415

**27.485 RTF Authorship Theory and
Practice**

3 semester hours

A study of the construction of documentary and dramatic material in terms of telecommunications/film semiotics with an overall survey of production and business problems.

A project course designed primarily for film, television, and radio majors moving into mass communications production seminars.
Prerequisite: 27.271

27.497 Mass Communications Internship
3-9 semester hours

Open to junior and senior majors with a QPA of 2.75 in the major, although consideration will be given for other practical experience students may offer. An internship may include on-campus or off-campus study of a particular project arranged by the student, adviser, and department chairperson. Interns are expected to have completed several of their basic specialist courses prior to applying for internships. Projects must be submitted in writing at least a month before the project is expected to begin and must be approved by the student's adviser and department chairperson. Course may be repeated within catalog regulations. Internships will become a compulsory part of the mass communications program. Credit is based on 3 semester hours for each 10 hours of work undertaken per week per semester. Limit is 9 total semester hours to graduation for internships. Special arrangements must be made for summer internships.

Prerequisite: 27.415

Note: Prerequisites may be waived by an instructor subject to the concurrence of the departmental chairperson.

Faculty Credentials

WILLIAM A. ACIERNO

B.A., University of Pittsburgh; D.F.A. and M.F.A., Carnegie-Mellon University

WALTER M. BRASCH

A.B., San Diego State University; M.A., Ball State University; Ph. D., Ohio University

**MARIA TERESITA G. MENDOZA-
ENRIGHT**

B.A., M.A., University of the Philippines System; M.A., University of Chicago; Ph.D., University of Wisconsin-Madison

TAMRAT MEREBE

B.S., University of Idaho; M.S., Ph.D., University of Wisconsin

DANA R. ULLOTH

B.A., Southern Missionary College; A.M., Ph.D., University of Missouri

Mathematics and Computer Science

College of Arts and Sciences

Chairperson

Charles M. Brennan

John H. Riley Jr.

June L. Trudnak

Professors

Harold J. Bailey

Stephen D. Beck

Charles M. Brennan

Paul C. Cochrane

JoAnne S. Growney

Paul G. Hartung

J. Edward Kerlin

Reza Noubary

James C. Pomfret

Medhi Razzaghi

Associate Professors

Leroy H. Brown

E. Dennis Huthnance Jr.

Stephen Kokoska

Ronald W. Novak

Clinton J. Oxenrider

Assistant Professors

Curt Jones

Zahira S. Khan

William D. Milheim

Thomas L. Ohl

Degree Programs

Bachelor of Arts in Mathematics, Bachelor of Science in Mathematics

The bachelor of arts program requires 45 semester hours for a major in mathematics.

The bachelor of science program requires 56 semester hours for a major in mathematics.

Goals and Objectives

The primary objective of the mathematics program is to provide a thorough background in both the theoretical and real world applications of mathematics. The curriculum and instructional strategies are designed to encourage and promote critical thinking and problem solving skills and the articulation of mathematical ideas.

The Department of Mathematics and Computer Science offers three baccalaureate degree programs: bachelor of arts, bachelor of science in mathematics, and bachelor of science in computer science (See the catalog section on *Computer Science*). The department also offers a minor in computer science, one in statistics, and another in mathematics.

The course sequence in all of the degree programs in mathematics is essentially the same through the first two years. The bachelor of arts program in mathematics offers a more flexible curriculum designed to accommodate varied career objectives while the bachelor of science program is specifically applications-oriented with more required courses in mathematical analysis and science. In the bachelor of science program, students select an area of concentration in their junior year to develop proficiency in an area of applied mathematics. Many students choose a joint program in mathematics and computer science, mathematics and statistics or mathematics and an area of business or physical sciences. A student majoring in education who chooses an area of concentration in mathematics essentially follows the bachelor of arts program in mathematics. The department strongly supports the implementation of mathematical and statistical software throughout all the mathematical programs. Students who complete a degree program in mathematics are prepared to continue their studies of mathematics on the graduate level or to enter industry in an area where mathematics is used.

For admission to the major in mathematics, a student should have a thorough preparation in high school mathematics. Students who complete the Advanced Placement Examination with a score of 3 or higher may earn university credit for the first calculus course, 53.125 Analysis I.

Recommended General Education Courses

Advisement should be considered before selecting general education courses in this major.

Required Courses for Bachelor of Arts in Mathematics

Mathematics 53.125, 53.126, 53.185, 53.225, 53.226, 53.241, 53.310, 53.314; at least two 3-semester-hours computer science courses numbered 56.122 or above, or 56.121; and at least one 3-semester-hours computer science course numbered 56.122 or above. At least three 3-semester-hours mathematics courses at the 300 level including at least two from the classical core consisting of 53.322, 53.331, 53.341, 53.360, 53.411, 53.421, 53.422, and 53.451. At least 6 semester hours in a discipline to which mathematics is traditionally applied (as approved by the adviser). Courses 53.311 and 56.305 may not be counted as requirements for the major.

Required Courses for Bachelor of Science in Mathematics

Mathematics 53.125, 53.126, 53.185, 53.225, 53.226, 53.241, 53.310, 53.314; Physics 54.211, 54.212; at least two 3-semester-hours computer science courses numbered 56.122 or above or 56.121; and at least one 3-semester-hours computer science course numbered 56.122 or above. At least three 3-semester-hours mathematics courses at the 300 level or above including two from the classical core (see above). A 9-semester-hours concentration in a special interest area within mathematics or in a related discipline; areas of concentration available upon request.

MATHEMATICS
(Code 53)

53.101 Mathematical Thinking

3 semester hours

Presents mathematical topics and applications in a context designed to promote quantitative reasoning and the use of mathematics in solving problems and making decisions. Suitable for majors in humanities, education, and others seeking a broad view of mathematics. No background in algebra required.

53.111 Finite Mathematics

3 semester hours

Presents an introductory development of counting techniques, probability spaces, and game theory.

53.112 Trigonometry

3 semester hours

Studies elementary algebraic functions and relations, exponential, and logarithmic functions, circular functions and inverse functions, and their applications.

Prerequisites: 53.114 or 2 years of high school algebra and 53.112 or high school trigonometry or their equivalent

53.113 Pre-Calculus

3 semester hours

Studies elementary algebraic functions and relations, exponential, and logarithmic functions, circular functions and inverse functions, and their applications.

Prerequisites: 53.114 or 2 years of high school algebra or the equivalent. Not open to students with credit for 53.112 or high school trigonometry or their equivalent

53.114 College Algebra

3 semester hours

Studies fundamental algebraic concepts and develops the mathematical and computation skills necessary to apply algebraic techniques to problems in business, economics, the social and natural sciences, and the liberal arts. Prerequisites: 1 1/2 years of high school algebra or the equivalent. Not open to students with credit for 53.112 or higher

53.118 Applied Matrix Algebra

3 semester hours

Introduces vectors, matrices, linear equations, and linear programming with applications to the social and biological sciences and business.

Prerequisite: 2 years of high school algebra or equivalent

53.123 Essentials of Calculus

3 semester hours

Course presents the basic concepts of elementary calculus in a nonrigorous approach for students who are not mathematics majors. Pertinent topics in the real number system, analytic geometry, functions, and limits prepare the student for the study of the basic techniques of differentiation and integration. Course is not for chemistry, mathematics or physics majors.

Prerequisite: At least 2 years of high school algebra

53.124 Essentials of Calculus II

3 semester hours

Techniques and applications of integration with an introduction to infinite series and elementary differential equations as a continuation of 53.123. Course is not for mathematics, chemistry, or physics majors.

Prerequisite: 53.123

53.125 Analysis I

3 semester hours

Analysis I is designed to meet part of the major-level mathematics requirement. It is first in the sequence of four calculus courses. Course provides the basic tools for differentiation and the beginnings of integration for functions of a single variable.

Prerequisite: 4 years of high school mathematics including a year of elementary functions or equivalent of 53.113

53.126 Analysis II

3 semester hours

Studies techniques of integration, functions, infinite series, Taylor's theorem, some special differential equations, and polar coordinates.

Prerequisite: 53.125

53.141 Introduction to Statistics

3 semester hours

Reading, interpreting, and constructing tables of statistical data, statistical measure; application of basic skills of statistics.

Prerequisite: High school algebra

53.185 Discrete Mathematics

3 semester hours

An introduction to set theory, logic, combinatorics, and graph theory for those interested in mathematics or computer science. Not usually taken in first semester of freshman year.

Prerequisite: 53.125 or consent of instructor

53.201 Theory of Arithmetic

3 semester hours

Presents the language of sets, the four elementary operations through the real number system, and the elementary theory of numbers. Course is primarily for majors in elementary education, special education or communication disorders.

Prerequisite: Sophomore status or above

53.202 Geometry and LOGO for Elementary Teachers

3 semester hours

Presents the content of geometry for the elementary curriculum using inductive reasoning and the LOGO computer language.

Prerequisite: 53.201 or consent of instructor

53.225 Analysis III

3 semester hours

Presents vector analysis in the plane and three dimensional space. Systems of linear equations, matrix algebra, linear transformations, partial derivatives.

Prerequisite: 53.126

53.226 Analysis IV

3 semester hours

Presents curves and parametric equations, surfaces, Taylor's theorem, functions between euclidean spaces, and multiple integrals.

Prerequisite: 53.225

53.231 College Geometry

3 semester hours

Presents elementary geometry from an advanced standpoint. Discusses incidence in the plane and in space, congruence, inequality, and similarity concepts. Studies proper-

ties of circles, polygons, and spheres.

Prerequisite: High school geometry

53.241 Probability and Statistics

3 semester hours

Studies descriptive and inferential statistics with emphasis on probabilistic distribution. Practiced training in the calculation of various statistical measures is included. A more rigorous course than 53.141.

Prerequisites: 53.126 (or current) and 53.185

53.243 Nonparametrics Statistics

3 semester hours

Presents standard nonparametric statistical procedures. After a brief review of hypothesis testing fundamentals, topics such as goodness-of-fit tests, one- and two-sample procedures for location parameter, tests of randomness, and association analysis are covered. Prerequisites: 53.123 or 53.125 and 53.141 or the equivalent

53.310 Introduction to Abstract Algebra

3 semester hours

Provides an introduction to the language and methods of abstract mathematics. Subjects include sets, relations, rings, functions, groups, and fields.

Prerequisites: 53.185 and 53.225

53.311 Algebra for Secondary School Teachers

Fall/Even-Numbered Years

3 semester hours

Presents topics of elementary algebra from an advanced viewpoint. Considers topics of contemporary school mathematics programs. Intended for students in secondary education majoring in mathematics.

Prerequisite: 53.310

53.314 Linear Algebra

3 semester hours

Studies abstract vector spaces, linear transformation, matrices, determinants, inner product spaces, and related topics.

Prerequisites: 53.185 and 53.225

53.322 Differential Equations

3 semester hours

Studies elementary ordinary differential equations, infinite series and power series solution, some numerical methods of solution, and LaPlace transforms.

Prerequisite: 53.225

53.331 Modern Geometry

Spring/Even-Numbered Years

3 semester hours

Presents non-euclidean geometrics and their development from postulate systems and a formal approach to projective geometry.

Prerequisite: 53.231

53.341 Statistical Methods

Fall

3 semester hours

Random samples and sampling distributions, parameter, estimation, simple linear regression and correlation. Design and analysis of single factor experiments, the analysis of variance, non-parametric statistics, statistical analysis using SAS.

Prerequisite: 53.241

53.342 Design and Analysis of Experiments

Spring

3 semester hours

Basic experimental statistics including methods of estimation and hypothesis testing, analysis-of-variance procedures, principles of experimental design, completely randomized and randomized complete block designs, factorial arrangements of treatments, linear regression and correlation analysis, covariance analysis and distribution-free methods.

Prerequisite: 53.241

53.343 Applied Regression Analysis

Fall

3 semester hours

A basic course in multiple linear regression methods including weighted least squares, stepwise regression, residual analysis, and applications to mathematical models. Problems which involve the use of computing equipment are treated.

Prerequisite: 53.241

53.360 Number Theory

Spring 3 semester hours
Presents the theory of numbers. Includes the topics of Euclidean algorithm, congruences, continued fractions, Gaussian integers, and Diophantine equations.
Prerequisites: 53.185 and 53.225

53.361 Coding and Signal Processing

Fall 3 semester hours
A mathematical approach to codes and ciphers. Includes security codes, coding for efficiency in computer storage, error-correcting codes. Signal processing, including the Fourier transform and digital filters. Individual projects required.
Prerequisites: 53.126 and 56.210 or 56.122

53.374 Introduction to Discrete Systems Simulation

Spring/Odd-Numbered Years 3 semester hours
Studies the ways that systems can be modeled for computer solution. Emphasizes stochastic behavior by discrete random processes and the simulation tools for their solution.
Prerequisites: One course each in calculus, programming, and statistics

53.381 Introduction to Operations Research

Fall/Odd-Numbered Years 3 semester hours
A survey of the methods and models used in applying mathematics to problems of business. Topics drawn from decision making, linear, and dynamic programming, networks, inventory models, Markov processes, and queuing theory.
Prerequisites: 53.118 and 53.123 or 53.225

53.411 Introduction to Group Theory

Alternate Years 3 semester hours
Study of theorems and applications of group theory begun in abstract algebra continued.
Prerequisite: 53.310

53.421 Advanced Calculus

Fall/Even-Numbered Years 3 semester hours
Presents a rigorous treatment of the concepts of limit, continuity, derivative, and integral for functions of a single real variable.
Prerequisites: 53.226, consent of instructor

53.422 Complex Variables

Fall/Odd-Numbered Years 3 semester hours
Presents a rigorous treatment of the complex numbers and theory of functions of a complex variable, limits, continuity, analytic functions, Cauchy-Riemann equations, contour integrals, conformal mappings, and applications.
Prerequisites: 53.226, consent of instructor

53.451 Introduction to Topology

Alternate Years 3 semester hours
Introduces fundamentals of general topology; elementary set theory, topological spaces, mappings, connectedness, compactness, completeness, product and metric spaces; nets and convergence.
Prerequisites: 53.226, consent of instructor

53.461 Probability Models and Applications

Spring/Odd-Numbered Years 3 semester hours
An introduction to elementary stochastic processes and their applications to various phenomena in engineering, management science, the physical and social sciences, and operations research.
Prerequisite: 53.341

53.462 Introduction to Mathematical Statistics

Spring/Even-Numbered Years 3 semester hours
An introductory study of mathematical statistics including distributions of functions of random variables, interval estimation, statistical hypotheses, analysis of variance, and the multivariate normal distribution.
Prerequisite: 53.341

53.471 Numerical Analysis
Spring/Odd-Numbered Years

3 semester hours

Provides a computer-oriented analysis of algorithms of numerical analysis. Includes the topics of non-linear equations, interpolation and approximation, differentiation and integration, matrices and differential equations. Prerequisite: 53.322 and 53.373

53.472 Matrix Computation
Spring/Even-Numbered Years

3 semester hours

Presents a computer-oriented analysis of matrices. Includes Gaussian reduction, LDU factorization, special reduction techniques for tridiagonal matrices, iterative methods, and a study of the matrix eigenvalue problem. Prerequisites: 53.118 or 53.225, and 53.373

53.491 Special Topics in Mathematics

3 semester hours

Presents an area of mathematics which is not available as a regular course offering. Prerequisite: Consent of the instructor

53.492 Independent Study in Mathematics
1-3 semester hours

Provides for directed study of a particular area of mathematics as mutually agreed upon by the student and the instructor. Emphasizes individual scholarly activity of the highly motivated student.

53.493 Honors in Independent Study
in Mathematics

3 semester hours

Course is for students who have demonstrated a high level of interest and ability in mathematics and have mastered the required course work. Students investigate research problems selected under the supervision of a faculty member of the Department of Mathematics and Computer Science. Prerequisite: Admission to the Honors Program in natural sciences and mathematics

Faculty Credentials

HAROLD J. BAILEY

B.S., Albright College; M.Ed., Ph.D., The Pennsylvania State University New York

STEPHEN D. BECK

B.S., Tufts University; M.S., Iowa State University; Ph.D., Rensselaer Polytechnic Institute

CHARLES M. BRENNAN

B.S.Ed., Bloomsburg State College; M.A., Montclair State College; Ph.D., The Pennsylvania State University

LEROY H. BROWN

B.S., Lock Haven State College; M.Ed., The Pennsylvania State University

PAUL C. COCHRANE

B.S., M.S., Ph.D., State University of New York

JOANNE S. GROWNEY

B.S., Westminster College; M.A., Temple University; Ph.D., University of Oklahoma

PAUL G. HARTUNG

B.A., Montclair State College; M.A., University of Colorado; Ph.D., The Pennsylvania State University

E. DENNIS HUTHNANCE JR.

B.S., M.S., Ph.D., Georgia Institute of Technology

CURT JONES

B.S., Lock Haven; M.S., University of Iowa

J. EDWARD KERLIN

B.S., Florida Atlantic University; M.A., Ph.D., University of California

ZAHIRA S. KHAN

B.A., Punjab University; M.Sc., Islamabad University; B.S., Bloomsburg University; M.A., Temple University

STEPHEN KOKOSKA

B.A., Boston College; M.S., Ph.D., University of New Hampshire

WILLIAM D. MILHEIM

B.A., College of Wooster; M.Ed., Ph.D., Kent State University

REZA NOUBARY

B.S., M.S., Tehran University, M.Sc., Ph.D., University of Manchester, England

RONALD W. NOVAK

B.S., California State College; M.Ed., University of Pittsburgh; M.A., University of Illinois

THOMAS L. OHL

B.S., Bloomsburg State College; M.Ed., Millersville State College

CLINTON J. OXENRIDER

B.S., Bloomsburg State College; M.A., The Pennsylvania State University; D.A., Idaho State University

JAMES C. POMFRET

B.S., Bates College; M.S., New Mexico State University; Ph.D., University of Oklahoma

MEHDI RAZZAGHI

G.C.E., Lewes Technical College; B.S., Sussex University; Ph.D., University of London

JOHN H. RILEY JR.

B.A., Lehigh University; M.S., Ph.D., The University of Connecticut

JUNE L. TRUDNAK

B.S., Bloomsburg State College; M.S., Bucknell University; Ph.D., The Pennsylvania State University

Medical Technology

School of Health Sciences, College of Professional Studies

Program Coordinator

James E. Cole, professor, Department of Biological and Allied Health Sciences

Advisers

Judith P. Downing, professor, Department of Biological and Allied Health Sciences

Phillip A. Farber, professor, Department of Biological and Allied Health Sciences

Mark S. Melnychuk, associate professor, Department of Biological and Allied Health Sciences

James E. Parsons, associate professor, Department of Biological and Allied Health Sciences

Degree Program

Bachelor of Science

A total of 96 semester hours is required for a major in medical technology.

Goals and Objectives

The programs in allied health sciences encompass those health areas in which individuals support, aid, and increase the efficiency and effectiveness of other health professionals by becoming a contributing member of a health care team. Programs in this area combine natural science and liberal arts education with clinical instruction. In general, students who complete any of the programs may enter their professions immediately. Others may select postgraduate education in health care. Central to most allied health programs, especially the clinical portion, is satisfactory completion of the clinical standards, often referred to as the *Essentials*. These standards establish requirements related to curriculum, personnel, financing, resources, and records.

Program of Study

The medical technology program consists of a minimum of 96 semester hours of coursework prescribed by the university, followed by one calendar year of clinical education in a medical technology program accredited nationally by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association (AMA) through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

Students enrolling in the curriculum leading to the Bachelor of Science will be admitted under the same policy governing other applicants to Bloomsburg University. These requirements may be found under the section on Admission and Readmission. Assistance in making application for admission to the clinical year phase is offered by the university, but admission to that phase, as well as fees, is determined solely by that institution. The university cannot guarantee that a student will be accepted for the clinical education portion of the program. In general, students with the highest academic achievement, who interview well, and have a history of volunteer work are given priority. Knowledge of the field and home location in proximity to a given institution often play an important part in the selection process.

Students who successfully complete all of the requirements and the clinical year earn a Bachelor of Science. All clinical year graduates become eligible to take the two certification examinations for medical technologists. Upon successfully completing one or both of these examinations, the student is awarded a certificate of registry and the designation Medical Technologist (M.T.) (ASCP) or Clinical Laboratory Scientist (C.L.S.) (NCA).

A student who fails to gain admission to a clinical program at the end of the junior year (3+1 program) or wishes to complete a degree prior to entering the clinical experience may remain at the university and complete the requirements for a baccalaureate degree. Ordinarily,

a student can complete the degree requirements for a bachelor of arts in biology in one additional year; other curricula may demand more time. Many students in the medical technology program select an option in microbiology. This option is detailed in the section on *Biology*.

Professional Education Courses

Biological and Allied Health Sciences 50.107, 50.110 or 50.120, 50.242, 50.243, 50.271, 50.342, 50.343, 50.233 or 50.332, 50.371 or 50.472; Chemistry 52.111, 52.112 or 52.118, 52.113, 52.230, 52.341 or 52.231, 52.232; Physics 54.107; Mathematics 53.141; and Computer Science 56.110.

Clinical Experience

A total of 32 semester hours must be earned from the Code 86 listing of courses in medical technology.

Elective Courses

Students must select additional courses to complete the minimum program requirement of 96 semester hours. The following courses are recommended as electives: Biological and Allied Health Sciences 50.282, 50.364, 50.442, 50.455, 50.471, and 50.483.

MEDICAL TECHNOLOGY (Code 86)

86.401 Clinical Microbiology

6-10 semester hours

A lecture and laboratory study of bacteria, fungi, parasites, and viruses which cause disease in humans, their clinical pathology, and related diagnostic laboratory procedures.

86.402 Clinical Hematology/ Coagulation

6-10 semester hours

A lecture and laboratory study of hematopoiesis and blood coagulation. Students acquire an understanding of the theory of hematological tests, skills in the performance of these tests, knowledge of blood disorders, and insight into the significance of test results.

86.403 Clinical Chemistry for Medical Technologists

6-10 semester hours

Lecture and laboratory study of enzymes, carbohydrates, lipids, proteins, nitrogenous end products, electrolytes, acid-base balance, body fluids, toxicology, endocrinology, and urinalysis. Lecture series includes anatomy, physiology, methods of analysis, and clinical

significance of each biochemical determination. Laboratory study includes standardization and quality control of procedures using spectrophotometry, chromatography, electrophoresis, and automated techniques.

86.404 Clinical Immunohematology

3-6 semester hours

Lecture and laboratory study of blood groups, genetics, antigens, and antibodies and their interaction as related to safe transfusion, prediction of immune incompatibilities, and probability of parentage. Donor collection, processing, blood component preparation, and therapy also studied.

86.405 Clinical Immunology/Serology

2-4 semester hours

Lecture and laboratory study of immunological concepts and theory and their relation to serologic reactions and clinical interpretations.

86.406 Clinical Seminar

1-6 semester hours

Covers courses not included above, such as orientation, laboratory management, education, clinical microscopy and/or areas unique to the individual hospital program.

Adjunct Faculty

Abington Memorial Hospital, Abington, Pa.

Paul J. Cherney, M.D.

Medical Adviser

Barbara J. Scheelje, M.T. (ASCP)

Program Director

The Bryn Mawr Hospital, Bryn Mawr, Pa.

Albert Keshgagian, M.D., Ph.D.

Medical Adviser

Nancy M.G. Calder, M.Ed., M.T. (ASCP)

Program Director

The Chester County Hospital

West Chester, Pa.

E.A. Bentley, M.D.

Medical Adviser

Christine Ford, M.T. (ASCP)

Program Director

Divine Providence Hospital, Williamsport, Pa.

Galal M. Ahmed, M.D.

Medical Adviser

Loretta A. Moffatt, M.T. (ASCP)

Program Director

Geisinger Medical Center, Danville, Pa.

John J. Moran, M.D.

Medical Adviser

Alvin Swartzenruber, M.T. (ASCP)

Program Director

Harrisburg Hospital, Harrisburg, Pa.

Him G. Kwee, M.D.

Medical Adviser

Judith Clark, M.T. (ASCP)

Program Director

Lancaster General Hospital, Lancaster, Pa.

Gerald R. Fahs, M.D.

Medical Adviser

Nadine E. Gladfelder, M.T. (ASCP)

Program Director

Nazareth Hospital, Philadelphia, Pa.

William J. Warren, M.D.

Medical Adviser

Diane P. Bejsiuk, M.Ed., M.T. (ASCP)

Program Director

Polyclinic Medical Center of Harrisburg

Harrisburg, Pa.

Julian W. Potok, D.O.

Medical Adviser

Janice Fogelman, M.Ed., M.T. (ASCP)

Program Director

The Reading Hospital and Medical Center

Reading, Pa.

I. Donald Stuard, M.D.

Medical Adviser

Sharon K. Strauss, M.T., (ASCP), CLS (NCA)

Program Director

Robert Packer Hospital, Sayre, Pa.

Joseph J. King, M.D.

Medical Adviser

Brian D. Spezialetti, M.S., M.T. (ASCP),

Program Director

Rolling Hill Hospital, Elkins Park, Pa.

Vivan Anagnoste, M.D.

Medical Adviser

Phyllis Gotkin, Ph.D., M.T. (ASCP)

Program Director

Sacred Heart Hospital, Allentown, Pa.

Francis V. Kostelnik, M.D.

Medical Adviser

Sandra Neiman, M.T. (ASCP), C.L.S. (NCA)

Program Director

St. Joseph Hospital, Reading, Pa.

Jasper G. Chen See, M.D.

Medical Adviser

Kirk Ohlinger, M.T. (ASCP)

Program Director

Scranton Medical Technology Consortium

Scranton, Pa.

Thomas V. DiSilvo, M.D.

Medical Adviser

Mary Gene Butler, M.S., M.T. (ASCP),

Program Director

University of Virginia Medical Center

Charlottesville, Va.

M.R. Wills, M.D.

Medical Adviser

Cheryl V. Leitch, M.T. (ASCP), S.H. (ASCP),

Program Director

Wilkes-Barre Hospital, Wilkes-Barre, Pa.

C. Warren Koehl Jr., M.D.

Medical Adviser

Helen M. Ruane, M.T. (ASCP)

Program Director

York Hospital, York, Pa.

John P. Whiteley, M.D.,

Medical Adviser

Brenda L. Kile, M.A., M.T. (ASCP),

Program Director

Air Force ROTC

School of Extended Programs

Coadjutant Instructors in Aerospace Studies

Lt. Col. Roger Matson
Capt. Robyn King
Capt. Terry Mathias
Capt. Dexter Manley

Bloomsburg University participates with Wilkes University in a cross-enrollment program which allows students to qualify for commissions in the U.S. Air Force upon graduation. Courses are taught on the Wilkes University campus in Wilkes-Barre, Pennsylvania, about one-hour drive from Bloomsburg.

The Air Force Reserve Officer Training Corps (AFROTC) provides a four-year program divided into the general military course (GMC) in the first two years and the professional officer course (POC) in the last two years. A student may elect to enroll in either the total four-year program or just the two-year POC program.

For acceptance into the POC four-year program, students must pass a physical examination and an officer qualification test, have an acceptable academic rating, and complete a four-week field training course prior to their junior year.

To qualify for direct entrance in the two-year POC program, students must have two academic years remaining at either the graduate or undergraduate level or a combination of the two. They must meet the physical standards, pass an officer qualification test, have an acceptable academic rating, and complete a six-week field training course. Transfer students may elect the two-year program providing they satisfy the above requirements. Students interested in the two-year program should start the application process early in their sophomore year.

Members of either the four-year or the two-year program are eligible to compete for AFROTC scholarships.

Uniforms, equipment, and textbooks for the AFROTC work are supplied by Wilkes University and the U.S. Air Force. Students in the POC receive a \$100 per month allowance.

Students who successfully complete the POC are commissioned as second lieutenants in the U.S. Air Force Reserve. They serve on active duty in the Air Force as pilots, navigators, missileers, or in a specialty as close to their academic training as possible and that is consistent with Air Force needs.

Four semester hours of credit may be earned in the GMC, 12 semester hours in the POC, and up to six in the field training program.

The field training required before entry into the POC is held at several operational bases each summer. Cadets have an opportunity to observe, fly, and live with career personnel. Transportation to and from the legal residence of the cadet to the field training base, food, lodging, medical, and dental care are provided by the Air Force. The cadet receives approximately \$400 for the four-week field training program or \$600 for the six-week program.

The Department of Aerospace studies at Wilkes University conducts a number of field trips to Air Force installations give students an opportunity to experience familiarization flights. For program information, call the Wilkes University Air Force ROTC office, (717) 824-4651, Extension 4860; or write P.O. Box 111, Wilkes-Barre, PA 18766. For registration information, contact the Bloomsburg University Registrar's Office.

AEROSPACE STUDIES (Code 61)

General Military Courses

The general military courses (GMC) constitute a two-year program for freshmen and sophomores and are designed to provide general knowledge of the role, organization, mission, and historical development of U.S. Air Power. Students enrolled in the GMC, who are not on Air Force scholarships, incur no military obligations.

61.110 U.S. Military Forces in the Contemporary World I

1 semester hour

Presents background, missions, and functions of U.S. military forces with emphasis on U.S. Air Force organization, doctrine, and strategic forces. Two hours per week: 1 class, 1 laboratory

61.120 U.S. Military Forces in the Contemporary World II

1 semester hour

Reviews U.S. general purpose military forces, insurgency and counter-insurgency, aerospace support forces, and organizations. Two hours per week: 1 class, 1 laboratory.

61.151 Leadership Laboratory

0 semester hours

Involves a progression of experience designed to develop each student's leadership potential in a supervised training laboratory. Examines Air Force customs and courtesies, drill and ceremonies, career opportunities, and life and work of an Air Force junior officer. All AFROTC students, except those enrolled only in 61.230, 61.330, and 61.340, must elect this course

61.210 The Development of Air Power I

1 semester hour

Reviews air power development in historical perspective through the end of World War II including mission, concine, and employment evolution with emphasis on changes in conflict and technology.

61.220 The Development of Air Power II

1 semester hour

Addresses air power development from the end of World War II to the present; changing missions and employment of air power in support of national objectives. Two hours per week: 1 class, 1 laboratory

61.230 Basic ROTC Camp

1-4 semester hours

Includes leadership training, survival training, and fitness training. Offered after successful completion of freshman and sophomore courses and by permission of instructor.

Professional Officers Courses

The Professional Officer Courses (POC) constitute a four-semester program, normally taken during the junior and senior years, mandatorily leading to commissioning as an Air Force officer. The POC concentrates on national defense policy, concepts, and practices of management and concepts and practices of leadership.

61.310 Concepts of Management

3 semester hours

Outlines fundamentals of organization and administration. The evolution of management including classical, behavioral and management science schools, study of information systems, quantitative approach to decision making, policy formulation, principles and practices in planning, organizing, staffing, actuating, directing, and controlling business and Air Force activities, resource control techniques, social and ethical issues within the management process, and development of communicative skills. Four hours per week: one 3-hour class, 1 laboratory

61.320 Concepts of Leadership

3 semester hours

Studies Air Force leadership at the junior officer level including its theoretical, professional, and legal aspects. Provides practical experience in influencing people, individually and in groups, to accomplish organizational missions effectively. Develops com-

municative skills, Four hours per week: one 3-hour class, 1 laboratory

Prerequisite: 61.310 or permission of instructor

61.330 Advanced ROTC Camp

1-6 semester hours

Includes leadership training, survival training, and fitness training. Offered in lieu of the freshman and sophomore courses for transfer students and other students who enter the program at the junior level.

**61.410 National Security Forces in
American Society I**

3 semester hours

The role and functions of the professional military officer in a democratic society and

civil-military interaction; basic framework of defense policy and formulation of defense strategy; development of communicative skills. Four hours per week: one 3-hour class, one 1-hour laboratory

**61.421 National Security Forces in
American Society II**

3 semester hours

Studies the problems of developing defense strategy in a rapidly changing technological environment effective deterrent posture and management of conflict; dynamics and agencies of defense policy making analyzed through case studies. Four hours per week: one 3-hour class, one 1-hour laboratory.

Prerequisite: 61.410 or permission of the instructor

Army ROTC

School of Extended Programs

Co-adjutant Instructors in Military Science

Major Brent C. Bankus, Director of Military Science

MSG Robert Gillum, Training NCO

SSG Donald Woodby, Administration NCO

Army ROTC at Bloomsburg became an extension center of Bucknell University on Oct. 1, 1986, and now has full-time instructors assigned on campus. This program also allows cadets to belong to local Army Reserve and National Guard units and receive their commission as a Second Lieutenant as early as the end of the junior year. Three- and four-year scholarships are available, and opportunities exist for flight training, Airborne and Air Assault School, and Ranger training.

Bloomsburg University students can qualify for a commission in the U.S. Army, Army National Guard, or Army Reserve through the on-campus Army ROTC program. The first two years of the program may be taken without military obligation.

Army ROTC provides a four-year curriculum open to both men and women regardless of academic major or area of study. It is divided into a basic program of four courses given during the freshman and sophomore years and the advanced program of four courses given during the junior and senior years. Academic credit is given for all these courses. The basic program does not require the student to make any commitment with the U.S. Army and allows the student to develop an understanding of the role of the commissioned officer within the Army. Course work provides training in leadership and management skills which help the individual develop the ability to communicate effectively, think analytically, and make independent and responsible decisions.

Scholarship benefits include full tuition and educational fees (ie. lab fees). Advanced course students also receive \$100 a month for 10 months during the academic year. After completion of the first year of the advanced program (between the junior and senior year), the student will attend a 6-week advanced camp, normally held at Fort Bragg, N.C. Payment during this camp is at a rate equivalent to one-half the basic pay for a second lieutenant with allowances for travel, subsistence, housing, uniforms, and medical care.

Veterans can be considered immediately for the advanced program by receiving constructive credit for the first two years of the Army ROTC. Other students who did not take ROTC during their freshman and sophomore years can still qualify for the advanced program if they have two years remaining at Bloomsburg. There are a variety of programs available to qualify these students for the advanced program.

Army ROTC also offers a ranger detachment for students who wish to gain more experience in outdoor activities, e.g., orienteering and survival skills.

Students are eligible for the Simultaneous Membership Program. This program allows students to belong to an Army National Guard unit or Army Reserve unit in addition to being a cadet.

Successful completion of the ROTC Advanced Program leads to a Second Lieutenant in the U.S. Army, Army Reserve, or Army National Guard. Active duty time will vary according to the type of program the student has elected, and students can be guaranteed Reserve National Guard duty if they desire.

MILITARY SCIENCE (Code 67)

Basic Program

Freshman and Sophomore Years

67.110 Introduction to Military Science

1 semester hour

Presents an overview of the Army ROTC program and scholarship opportunities. Provides an overview of military skills, ie., land navigation, map reading, rappelling, and practical field training. *One 75-minute class per week, 7 evening laboratories per semester.

67.120 Introduction to Military Issues

1 semester hour

Discussion of the role of the U.S. Army, Army Reserve, and Army National Guard. Covers the organizations and missions of the Army and its units from squad through division size.

67.210 Applied Leadership and Management I

1 semester hour

Provides an overview of the Army rank structure and a specific survey of the junior officer's duties and responsibilities within that rank structure. Practical training will consist primarily of advanced land navigation skills building on those skills mastered in 67.110 with further field navigation experience as well as rappelling and practical field training. * One 75-minute class per week, 7 evening laboratories per semester.

67.220 Applied Leadership and Management II

1 semester hour

Presents the fundamentals of small unit leadership and mission planning techniques to include the reverse planning process and problem-solving techniques. Course also provides an overview of the branches of the U.S. Army, service pay, and benefits. Practical experience will apply the principles learned to a field environment. *Four hours per week: one 3-hour class, one 1-hour laboratory

67.230 ROTC Basic Camp

4 semester hours

Sophomore Summer Semester Course is offered in lieu of the basic course for transfer students and other students who wish to enter the advanced program. The camp is generally held each summer at Fort Knox, Kentucky, and is six weeks in duration. Due to budget constraints, this course may be discontinued after the summer of 1991.

***Note:** Conducted during leadership laboratory and consists of adventure/survival training, land navigation, first aid, and dismounted drill exercise which cannot be conducted in the classroom.

Advanced Program

Junior and Senior Years

67.310 Advanced Military Science I

3 semester hours

Provides a detailed study of the leadership techniques and the principles introduced in 67.220. Course will rely on case studies drawn from experience of active duty lieutenants and will place cadets in role model situations to provide first-hand experience in problems of small unit leadership. **One 2-hour class per week, seven laboratories per semester.

67.320 Theory and Dynamics of the Military Team

3 semester hours

Applies the techniques learned in 67.310 to a detailed study of the principles of war, the Geneva and Haque Conventions, and small unit tactics. Course will include an analysis of the current world situation and current U.S. Doctrine concerning it. One 2-hour class per week, seven laboratories per semester.

67.330 ROTC Advanced Camp

6 semester hours

A six-week practical application and evaluation phase required of each cadet prior to commissioning. Advanced camp, conducted at Fort Bragg, N.C., places cadets in leadership positions where they must put into prac-

tice the techniques learned on campus in both tactical and nontactical situations. Advanced camp also afford cadets the opportunity to develop skills in the areas of survival, fitness, and life-long recreational skills in both formal and informal settings. Of the 337 hours of training at advanced camp, 152 hours or 45 percent have application to these three-key areas.

67.410 Advanced Leadership and Management I

3 semester hours

Presents advanced leadership and management skills required of a manager in a military environment. Students perform roles in management of a military organization utilizing course-presented skills in administration, training, conduct of meetings, briefings, and logistics.

****Four hours per week: one 2-hour class per week, seven laboratories per semester.**

67.420 Advanced Leadership and Management II

3 semester hours

Acquaints the students through a series of case studies and role playing simulations with the high ethical standards required of a manager and leader. Additionally, students learn the basic principles and procedures of military law and their application in a military environment. Students continue to perform roles in management of a military organization utilizing skills developed in prior military science courses.

****One 2-hour class per week, seven laboratories per semester.**

****Note:** Cadets gain further practical leadership training during the leadership laboratory while performing in leadership positions and conducting training.

U.S. Marine Corps

Platoon Leaders Program

This is a program which provides selected students an opportunity to be commissioned as officers in the U.S. Marine Corps after completing summer training courses and a baccalaureate degree program at Bloomsburg University. Programs in Marine aviation and law also are available.

Contact: Captain B.N. Shultis, USMC, Veteran's Administration Building, North Main St., Wilkes-Barre, PA 17801; (717) 823-4131.

Department of Music

College of Arts and Sciences

Chairperson

Stephen C. Wallace

Assistant Professors

Mark R. Jelinek
 Wendy L. Miller
 B. Eric Nelson
 Terry A. Oxley
 W. Ann Stokes

Associate Professors

John H. Couch
 Stephen C. Wallace

Degree Program

Bachelor of Arts in Music

A total of 128 semester hours is required for a major in music.

Goals and Objectives

The goals of the Department of Music are to provide a balanced and diverse program of quality music activities, to provide a student-generated music performance element for the entire university community, and to achieve better understanding of the art of music and the principles guiding effective music education. This goal is supported by a generous number of course offerings (classroom music courses in appreciation, skill development, music history, style and repertoire, harmony and application), maintenance of seven outstanding performance ensembles appearing regularly on campus and through tours, and opportunities to study voice, piano, organ, and the standard orchestral string and wind instruments on a weekly private lesson basis. In addition, opportunities exist for solo work, recitals, and leadership roles.

Program offerings include: a bachelor of arts in music, a liberal arts-oriented preparation for studio teaching and postbaccalaureate study having either an applied music or a music history specialization; a minor in music, a 22-semester-hour program packaged according to seven specialty areas in music; and a music concentration for education majors and certificate programs in music (22 semester hours) and theater-music (18 semester hours). Selecting of either the music major or minor program is highly encouraged during the freshman year.

A maximum of 6 semester hours may be earned in seven ensembles: Maroon and Gold Band, Concert Choir, Women's Choral Ensemble, University-Community Orchestra, Husky Singers, Studio Band, and Madrigal Singers. Enrollment in an ensemble is based on invitation or successful audition. The ensembles are described as courses 35.111 through 35.117.

Private lessons in voice, organ, piano, strings, woodwinds, brass, and percussion are available to qualified students. As many as 8 semester hours of private instruction may be earned. 16 semester hours for music majors. Private lessons for majors in music, described in courses 35.141 through 35.196 and 35.241 through 35.295, may be elected after consultation with the respective instructors. (For voice, contact Drs. Nelson or Miller; for organ, Nelson; for piano, Couch; for class piano, Stokes or Couch; for woodwinds and percussion, Terry Oxley; for brass, Wallace; and for strings, Jelinek and Stokes.)

Required Courses and Options

Required courses include: 35.131, 35.132, 35.133, 35.134, 35.231, 35.232, 35.331, 35.332, 35.221, and 35.222; demonstration of piano proficiency by examination and/or election of 35.108; 8 semesters (4 semester hours) of ensemble; 35.101 is recommended; and one of the following two options:

Music History and Literature—16 semester hours; 35.421, 35.422, and 9 semester hours through courses 35.324, 35.325, and 35.327; also 4 semester hours of choice of the instruments or voice.

Applied Music Option—16 semester hours: one instrument or voice for 8 semesters. Selection of voice as the applied music area requires 16 semester hours in language courses: 16.109 Language for Singing, French 10.101 and 10.102, German 11.101 and 11.102, and Italian 14.101.

Early declaration of a music major is necessary to complete the program in eight semesters.

Recommended General Education Courses

1. Specific course area (4 categories) as desired (18 semester hours)

2. Group A (Humanities): 12 semester hours necessary

- 30.101 Introduction to Art
- 25.103 Public Speaking
- 42.112 Origins of the Modern World
- 14.101 Italian I
- 11.101 German I
- 10.101 French I
- 28.111 Introduction to Philosophy
- 26.102 Introduction to Theater Arts
- 26.215 History of the Theater

Group B (Social/Behavioral Sciences): 12 semester hours necessary

- 41.102 World Cultural Geography
- 46.200 Principles of Cultural Anthropology
- 48.101 General Psychology
- 48.131 Psychology of Adjustment
- 48.211 Child Psychology
- 48.212 Adolescence

Group C (Natural Science and Mathematics): 12 semester hours necessary

- 52.100 Chemistry and the Citizen
- 53.101 Mathematical Thinking
- 54.101 Basic Physical Science
- 54.104 Elementary Electronics
- 54.106 The Science of Sound

Minor in Music

The minor provides a music emphasis in areas designated “applied voice,” “applied instrumental music,” “applied keyboard,” “music history—literature,” “theory” (harmony and application), “music skills” (general music development), and “audio recording techniques.”

The minor in music is a 22-semester hour program emphasis that may be selected by undergraduate students who major in a program other than the bachelor of arts in music. The minor, which may be completed in 8 or less semesters, is built from Code 35 courses that include music theory, ear training, music history and style, applied study, and performing ensembles.

Career Concentration

The “audio recording techniques” career concentration is a cross-discipline vocational preparation, available through the Department of Music in cooperation with the departments of Mass Communications and Physics and private business. Internships are required.

MUSIC (Code 35)

Courses are offered each semester unless otherwise noted.

35.101 Music Listening I

3 semester hours

Provides an approach to music listening through study of basic vocal and instrumental styles. Analysis of various masterpieces, composers, and musical forms. Requires no previous musical experience. Recommended first-course in non-applied music.

35.108 Piano Proficiency

1 semester hour

Provides opportunity for majors in music to gain proficiency at the keyboard. May be repeated.

35.111 Maroon and Gold Band

0-1 semester hour

Performs music of varied styles and periods. Marching band each fall, concert band each spring. Requires 5 hours per week each fall and 4 hours per week each spring. Requires 2 semesters for 1 semester hour. Contact Dr. Oxley for information.

35.112 Concert Choir

0-1 semester hour

Performs music of varied styles and periods, stressing oratorio and a cappella literature. Requires 4 hours per week for 2 semesters for 1 semester hour. only. Contact Dr. Nelson for information.

35.113 Women's Choral Ensemble

0-1 semester hour

Performs varied styles from popular to masterworks. Requires 3 hours per week for 2 semesters for 1 semester hour. Contact Dr. Miller for information.

35.114 University-Community Orchestra

0-1 semester hour

Performs music appropriate to the symphony orchestra. Requires 3 hours per week for 2

semesters for 1 semester hour. Rehearses Monday evening. Election for wind and percussion players requires permission of the instructor. Contact Dr. Jelinek

35.115 Studio Band

0-1 semester hour

Performs jazz, swing, and other forms representing the big band style. Requires 3 hours per week for 2 semesters for 1 semester hour. Election requires permission of the instructor. Audition may be necessary. Contact Dr. Wallace.

35.116 Husky Singers

0-1 semester hour

Performs varied music for men's chorus. Requires 2 hours per week for 2 semesters for 1 semester hour. No audition required. Contact Dr. Nelson for information.

35.117 Madrigal Singers

0-1 semester hour

Performs music of many styles and periods, primarily music of the Renaissance. Open to singers from other university vocal ensembles. Requires 3 hours per week for 2 semesters for 1 semester hour. Membership by audition only and permission of instructor. Contact Dr. Miller for permission to schedule.

35.130 Fundamental Musicianship

Spring

3 semester hours

Explores personal music understanding and development through elementary terminology, symbols, theory, music reading, singing, playing, and chording of simple instruments and bodily movement to music. Suggested for students with little musical background as preparation for applied study and courses 35.311, 35.131, and 35.133. Recommended first-course in applied music.

35.131 Music Theory I

Fall

3 semester hours

Studies harmony, voice leading, and keyboard harmonization. Requires 3 hours per week.

Prerequisite: 35.130 or permission of the instructor.

35.132 Music Theory II

Spring 3 semester hours

Continues Music Theory I with the study of seventh chords and common-chord and chromatic modulations. Includes melodic and rhythmic dictation and keyboard realization. Requires 3 hours per week.

Prerequisite: 35.131

35.133 Sight Singing I

Spring 1 semester hour

Development of the musical ear through progressive training. Elected by music majors or as a single course by non-music majors. Requires 2 hours.

Prerequisites: 35.130, 35.131 or permission of instructor

35.134 Sight Singing II

Fall 1 semester hour

Continues musical ear training. Elected by music majors or as a single course by non-music majors. Requires 2 hours.

Prerequisite: 35.133

35.141 Violin

1 semester hour

Provides private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.142 Viola

1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at one semester hour each election. Permission of instructor.

35.143 Violoncello

1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.144 Double Bass

1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.151 Organ

1 semester hour

Private instruction for those who have previously studied organ or who have strong piano backgrounds. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.161 Trumpet

1 semester hour

Private instructions for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.162 Horn

1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.163 Trombone

1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.164 Baritone

1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.165 Tuba

1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.171 Voice

1 semester hour

Private instruction for students with demonstrated vocal abilities. One-half hour per week. May be repeated at 1 semester hour each election.

Prerequisite: 35.226 except declared music majors and music minors

35.181 Piano

1 semester hour

Private instruction for students with previous piano study. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor

35.191 Flute

1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.192 Oboe

1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.193 Clarinet

1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.194 Bassoon

1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.195 Saxophone

1 semester hour

Private instruction for students with ability or potential. One-half per week. May be repeated at 1 semester hour each election. Permission of instructor.

35.196 Percussion

1 semester hour

Private instruction with snare, timpani, and mallets for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Permission of instructor.

**35.208 Special Topics in Music
Performance**

3 semester hours

Provides a unique experience in performance or the study of performance practice. Instructor develops a one-time-only study. Information is available by contacting the Department of Music. Offered as needed.

**35.209 Special Topics in Music
Appreciation**

3 semester hours

Provides a unique study of music beyond currently available course topics. Instructor develops a one-time-only study. Information is available by contacting the Department of Music. Offered as needed.

35.221 Music History I

Fall

3 semester hours

Emphasizes understanding and appreciation of music from medieval times to 1750 through listening and development of a technical vocabulary.

35.222 Music History II

Spring

3 semester hours

Provides an overview of music history covering the years 1750 to the present time. Includes discussion of composers and other significant persons, works, and development of forms and genres during this time frame.

35.224 Class Piano I

2 semester hours

Provides group piano instruction for the beginner. Emphasizes solo playing, sight-reading, and creative accompaniments. Requires 3 hours per week. Limited seating. Prerequisite: Permission of instructor

35.225 Class Piano II

2 semester hours

Develops independence in solo playing and accompanying. Continuation of 35.224 for students with demonstrated abilities. Requires 3 hours per week.

Prerequisite: Permission of instructor

35.226 Class Voice

2 semester hours

Provides group voice instruction for the beginner. Emphasizes fundamental singing techniques and solo performance. Requires 3 hours/week.

Prerequisite: Permission of instructor

35.227 Class Strings

2 semester hours

Provides learning of fundamental string skills and related information for string instruments. Requires 3 hours per week.

Prerequisite: 35.130 or permission of instructor

35.228 Seminar in Piano Accompanying

2 semester hours

Provides instruction, coaching, systematic score study, and critical performing experience for pianists. Requires 3 hours per week and includes performing.

Prerequisite: Permission of instructor

35.229 Class Instruction in Brass

Fall/Even-numbered Years

2 semester hours

Provides group brass instruction for the beginner or the brass player who wishes to double. Emphasizes fundamental technique and elementary performance. Requires two hours per week.

Prerequisite: 35.130 or permission of instructor

35.231 Music Theory III

Fall/Odd-numbered Years

3 semester hours

Continuation of music theory. Includes formal analysis, design, original composition, harmonic dictation, and perception skills.

Requires 3 hours per week.

Prerequisite: 35.132

35.232 Music Theory IV

Spring/Even-numbered Years

3 semester hours

Continuation of music theory. Reviews 20th century compositional styles. Includes analysis and composition. Requires 3 hours per week.

Prerequisite: 35.132

35.233 Choral Conducting and Methods

Spring/Even-numbered Years

3 semester hours

Examines the development of techniques and abilities for participating in and supervising choral ensembles. Stresses tone production, proper breathing, choral conducting, and reading of appropriate literature.

Prerequisite: 35.132

35.241 Violin for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.242 Viola for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.243 Violoncello for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.244 Double Bass for Music Majors

2 semester hours

Two weekly half-hour lessons for students

electing the applied specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.251 Organ for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.261 Trumpet for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.262 Horn for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.263 Trombone for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.264 Baritone for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.265 Tuba for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the

bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.271 Voice for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied voice specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.281 Piano for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.291 Flute for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing applied specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.292 Oboe for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.293 Clarinet for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the bachelor of arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.294 Bassoon for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the bachelor of arts in music program. May be

repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.295 Saxophone for Music Majors
2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.311 Music in the Elementary School
3 semester hours

Provides students with practical skills, theoretical background, and musical knowledge that will enable them to teach general music effectively in the elementary classroom. Course designed primarily for elementary education majors. Limited seating.

35.324 American Music
Fall/Even-numbered Years

3 semester hours

Studies works of selected American composers with reference to characteristics indigenous to American music.

Prerequisite: 35.101

35.325 Opera and Music Theater
Spring/Odd-numbered Years

3 semester hours

Studies major works of the lyric stage. Emphasizes listening to and reading works of opera, operetta, and the popular theater.

Prerequisite: 35.101

35.327 Survey of Popular Music
Fall/Odd-numbered Years

3 semester hours

Analyzes factors and elements of American popular music with emphasis on developments in the 20th century. Includes a chronological study of jazz, balladry, spiritual, country-western, theater, film, and rock in comparative listening situations.

Prerequisite: 35.101

35.329 Instrumental Conducting
2 semester hours

Develops skills in baton technique and score reading with emphasis on practical application in the instrumental organizations. Laboratory course with three 50-minute sessions per week.

Prerequisites: Music major and 35.132

35.331 Music Theory V, Counterpoint
Fall/Even-numbered Years

2 semester hours

Continuation of music theory. Studies melodic writing in two and three voices through the 18th century style. Requires 2 hours per week.

Prerequisite: 35.132

35.332 Music Theory VI, Orchestration
Spring/Odd-numbered Years

2 semester hours

Continuation of music theory. Examines instrumental transposition, idioms, score writing, and analysis. Requires 3 hours per week.

Prerequisite: 35.132

35.350 Seminar in Music Theater
3 semester hours

Studies the Broadway musical with special emphasis on works currently in production. Offered in conjunction with productions during spring and summer semesters.

Prerequisite: 35.101

35.421 Seminar in Music History I
2 semester hours

Emphasizes development of skill in independent research in areas of music history for majors in music electing the music history specialization. Offered as needed.

Prerequisite: 35.221, 35.222

35.422 Seminar in Music History II
1 semester hour

Continuation of 35.421 with emphasis on academic research and musicology for majors in music electing the music history specialization. Offered as needed.

Prerequisite: 35.421

35.491 Independent Study in Music

1-3 semester hours

Provides for a student project of a creative nature in music history, education or performance. Requires permission of the Department of Music before scheduling.

35.497 Internships in Music

3-15 semester hours

Provides for extended off-campus field experience to be arranged by the major in music, a faculty adviser, and an off-campus agency. Requires the permission of the Department of Music before scheduling.

Faculty Credentials

JOHN H. COUCH

A.R.C.T., Royal Conservatory of Music; M.M., Indiana University School of Music

MARK R. JELINEK

B.M.E., M.A., Eastern New Mexico University; D.M.A., Arizona State University

WENDY L. MILLER

B.S., Bluffton College; M.M., D.Mus., Indiana University

B. ERIC NELSON

B.M., Houghton College; M.M. Westminster Choir College; D.Mus., Indiana University

TERRY A. OXLEY

B.M.E., University of Wisconsin, Eau Claire; M.M.E., University of Wisconsin Steven's Point; D.A., University of Northern Colorado

W. ANN STOKES

B.Mus., M.Mus., University of North Carolina-Greensboro; Ph.D., Northwestern University

STEPHEN C. WALLACE

B.S., Mansfield State College; M.M., University of Michigan; D.Ed., The Pennsylvania State University

Department of Nursing

School of Health Sciences, College of Professional Studies

Chairperson

Nancy A. Onuschak

Professors

M. Christine Alichnie
Nancy A. Onuschak
Lauretta Pierce

Associate Professors

Mary A. Gavaghan
Annette Gunderman
Dorette E. Welk

Assistant Professors

Jean E. Berry
Robert L. Campbell

Mary Ann Cegielsky

Carolyn M. Dalton, part-time nutritionist

Sandra E. Gorton

Jean K. Kalat

Sharon S. Kribbs, assistant chairperson

Cathy E. Livengood

Bernadine T. Markey

Alexis Bulka Perri

Gloria J. Schechterly

Joan B. Stone

Patricia B. Torsella

L. Patricia Zong

Degree Program

Bachelor of Science in Nursing

A total of 57 semester hours is required for a major in nursing.

Goals and Objectives

The purpose of the baccalaureate program in nursing is to provide learning opportunities in nursing and related disciplines which enable the student to attain attitudes, knowledge, and skills essential to the role development of a beginning practitioner. The graduate utilizes critical thinking, responsible decision making, and independent judgment through the use of the nursing process to provide health care to a diverse and multicultural society in a variety of settings. The program provides a foundation for further education and lifelong learning activities.

The bachelor of science in nursing (BSN) is awarded to those students who successfully complete the requirements for the degree. Degree recipients (non-RN) are then eligible to take the NCLEX licensure examination administered by the Board of Nursing in the state of their choice.

Generic Students

Generic is a term used by the National League for Nursing and the Pennsylvania State Board of Nursing to designate students who are not registered nurses. Four types of candidates fall into the generic category: freshman candidates, external transfer candidates, internal transfer candidates, and second degree candidates.

Recommended General Education Courses

A number of the prescribed courses in the physical sciences and social sciences, required as prerequisites for the nursing curriculum, may also apply toward General Education Requirements in Groups B and C.

Required Courses

Prerequisite Courses

Psychology 48.101, 48.210; Sociology 45.211; Biology 50.173, 50.174, 50.240; Chemistry 52.101, 52.103, 52.108

Professional Courses

Nursing 82.210, 82.211, 82.212, 82.213, 82.306 (Prerequisite Statistics 48.160 or 53.141), 82.311, 82.312, 82.410, 82.411, 82.412, 82.413

Elective Courses

Additional courses must be taken as necessary to complete the minimum graduation requirement of 128 semester hours.

Registered Nurses

Recommended General Education Courses

A number of the prescribed courses in physical sciences and social sciences, required as prerequisites for the nursing curriculum, may also apply toward meeting General Education Requirements in Groups B and C.

Required Courses

Prerequisite courses to the major are: Psychology 48.101, 48.210; Sociology 45.211; Biological and Allied Health Sciences 50.173, 50.174, 50.240; Chemistry 52.101, 52.103, and 52.108.

Professional Courses

The following courses are required for RN students: Nursing 82.215, 82.306 (a statistics course, either Psychology 48.160 or Mathematics 53.141, is prerequisite); 82.410 and 82.413.

Elective Courses

Additional courses must be taken as necessary to complete the minimum graduation requirement of 128 semester hours.

Advanced Placement

RNs may earn credits through examinations if they meet the required prerequisites and provisions to the course(s) being challenged. The mechanisms for advanced placement are as follows:

- a. **Credit by Examination (faculty prepared examinations) procedure as explained earlier in this catalog.** In the Department of Nursing, the RN may petition for credit by examination in courses 82.211 and 82.410. Nursing study guides are available to facilitate review for these examinations. Petitioning for credit by examination can only occur following admission to the university. Other departments can be contacted to petition for credit by examination based upon university policy. The student must go directly to the chairperson of the individual department (i.e. Department of Biological and Allied Health Sciences, Department of Chemistry).
- b. **College Level Equivalency Examination Program (CLEP), procedure as explained elsewhere in this catalog.**
- c. **NLN Mobility Profile II:** 39 semester hours of advanced placement may be earned through the successful completion of four NLN Mobility Profile II tests. A failure on the examination will require enrollment in the recommended Bloomsburg University course.

Information about the NLN Mobility Profile II tests may be obtained from the Department of Nursing.

- d. **ANA Certification Examinations:** Presentation of evidence of successful completion of ANA certification in a clinical specialty may be submitted for transfer of semester hours in the course to which the certification applies in lieu of the NLN Mobility Profile II.

The following is a suggested four-year sequence for the BSN curriculum, including the code number, title, and semester hours for each course.

FRESHMAN YEAR

Fall Semester		Spring Semester	
50.173	Anatomy/Physiology I 4	50.174	Anatomy/Physiology II 4
52.101	Introductory Chemistry 3	52.108	Physiological Chemistry 4
52.103	Introductory Chemistry Laboratory 2	45.211	Principles of Sociology 3
48.101	General Psychology 3	48.210	Life-Span Psychology 3
20.101	Composition I 3	20.201	Composition II 3
or 20.104	Honors Composition	or 20.200	Writing Proficiency Examination
05.000	Survival 1	05.000	Survival 1

SOPHOMORE YEAR

Fall Semester		Spring Semester	
50.240	Introductory Microbiology 3	82.213	Nursing II 6
82.210	Nursing I (non-RNs) 3		Statistics 3
82.215	Role Development for Nurse Generalist (RNs only) 3		Quantative-Analytical Elective
82.211	Nutrition 3	or	General Education requirement 3
82.212	Pharmacology 3		General Education requirement 6
	Communication elective 3		
05.000	Survival 1		

In the junior and senior years, the class is divided in half so that half the students take the level classes in a different sequence.

JUNIOR YEAR

Fall or Spring Semester		Fall or Spring Semester	
82.311	Nursing III 8	82.312	Nursing IV 8
	Values electives 3		General Education requirement 9
82.306	Methods of Inquiry 3		

SENIOR YEAR

Fall or Spring Semester		Fall or Spring Semester	
82.410	Nursing V 6	82.412	Nursing VII 8
82.411	Nursing VI 6	82.413	Nursing Trends and Issues 3
	Free elective 3		Free elective 3

NURSING (Code 82)

Courses within the nursing curriculum are restricted to students in the B.S.N. program, except for 82.217 Alcohol: Use and Abuse which is a free elective open to all students.

82.200 Nursing Placement

Variable semester hours

This is a number used to transfer in advanced placement credits resulting from NLN Mobility II Profile tests or ANA certification examinations which may be taken by registered nurses.

82.210 Nursing I

3 semester hours

Focuses on the roles of the professional nurse and the use of the nursing process. Content includes the philosophy and conceptual framework of the university, Department of Nursing, health care delivery systems, and the legal and ethical aspects of nursing practice.

Prerequisites: Sociology 45.211; Psychology 48.101, 48.210; Biological and Allied Health Sciences 50.173, 50.174; concurrent 50.240

82.211 Nutrition

3 semester hours

An introduction to the principles of nutrition and ways in which these principles are applied to promote an optimal level of wellness for all individuals. Topics include nutritional requirements for maintaining health and development throughout the lifespan as well as factors affecting food choices of individuals and society.

Prerequisites: Biological and Allied Health Sciences 50.173, 50.174; Chemistry 52.101, 52.103, 52.108; concurrent 50.240

82.212 Pharmacology

3 semester hours

Provides a foundation in pharmacology for pharmacologic content integration throughout the curriculum. Historical, legal, ethical, social, and political dimensions of pharmaco-

therapeutics are explored.

Prerequisites: Biological and Allied Health Sciences 50.173, 50.174; Chemistry 52.101, 52.103, 52.108; concurrent 50.240

82.213 Nursing II

6 semester hours

Focuses on the use of the nursing process to facilitate an optimal level of wellness of adult individuals in a diverse and multicultural society in nonlife-threatening, adaptive situations in community hospitals. The content is organized within the framework of the basic human needs of self-concept, security, mobility, nutrition/elimination, and oxygenation and developed through application of the nursing process. Beginning role behaviors are applied in the clinical setting.

Prerequisites: 82.210, 82.211, 82.212; Biological and Allied Health Sciences 50.240

82.215 Role Development for the Nurse Generalist (RN)

3 semester hours

Resocializes the registered nurse for professional practice. Introduces the philosophy, purpose, objectives, and conceptual framework of the Department of Nursing's program. Through increased knowledge and integration of varied professional nursing concepts, the student develops the roles of clinician, teacher, leader, consultant, and consumer of research.

Prerequisites: Current state license as an RN; Sociology 45.211; Psychology 48.101, 48.210; Biological and Allied Health Sciences 50.173, 50.174; Chemistry 52.101, 52.103, 52.108

82.217 Alcohol: Use and Abuse

3 semester hours

Provides comprehensive overview of alcohol use and misuse in the American population. Because alcohol is a leading public health problem in the U.S., this course is intended for students in all disciplines. Examines the nature of alcohol problems as well as socio-cultural attitudes towards drinking. Explores alcohol's effects on the body. The impact of

alcoholism on adolescents, professional workers, women, the elderly, and the family is discussed. Examines prevention, intervention, and referrals. An overview of treatment and rehabilitation that includes spiritual, moral, and legal aspects.

82.306 Methods of Inquiry

3 semester hours

Introduces research methods and techniques to assist students in becoming consumers of research. Emphasizes the contribution of research to the discipline and the consumer's role in critically evaluating, applying, and disseminating research findings. Requires students to demonstrate use of research principles and skills in scholarly written and oral communications.

Prerequisite: Psychology 48.160 or Mathematics 53.141

82.307 Geriatric Nursing

3 semester hours

Focuses on the physiological, psychological, and social aspects of aging with emphasis on the assessment of problems and appropriate nursing intervention.

Prerequisite: Junior or Senior standing or RN

82.311 Nursing III

8 semester hours

Focuses on the use of the nursing process in helping adult individuals and families reach their optimal level of wellness as they adapt to chronic and potentially life-threatening situations. Content is organized within the framework of five basic human needs. Professional role behaviors continue to develop in clinical settings in medical centers/hospitals as the student achieves a broader perspective of the client as an individual and a family.

Prerequisite: 82.213

82.312 Nursing IV

8 semester hours

Focuses on the use of the nursing process to facilitate optimal level of wellness of beginning and developing families in clinics and child care centers. Theories of growth and

development and family developmental tasks provide the framework for planning and implementing nursing care with a diverse, multicultural client population in medical centers/hospitals. Students develop in their role performance as they interact with clients and other health care providers to improve the quality of family health care.

Prerequisite: 82.213

82.313 Special Topics

1-6 semester hours

Presents a diversity of topics focusing on contemporary trends, issues, and problems relevant to the principles and practice of professional nursing in the health care system.

Prerequisite: Junior nursing standing

82.405 Independent Study

1-6 semester hours

Requires investigation of an area of special interest and value to the student under the direction of a faculty member following a plan approved by the department chairperson. Course may be interdisciplinary.

Prerequisite: Senior nursing standing

82.410 Nursing V

6 semester hours

Focuses on the use of the nursing process in assisting the community with its adaptive responses to facilitate an optimum level of wellness of holistic humankind. Process of role development is fostered through independent and interdependent activities with a variety of culturally diverse population aggregates in community settings.

Prerequisites: 82.311, 82.312

82.411 Nursing VI

6 semester hours

Provides a holistic focus on a diverse, multicultural client population at various points on the mental health/mental illness continuum. Relevant principles and theories of human behavior, adaptation, and therapeutic intervention provide a framework for the planning and implementation of nursing care. Students employ a "therapeutic use of self" as

they implement the nursing process to assist individuals, families, and communities in attaining and maintaining an optimal level of mental wellness. Enhances the student's professional role development through a variety of independent and interdependent activities with clients and the interdisciplinary team which are designed to improve the quality of mental health care.

Prerequisites: 82.311, 82.312

82.412 Nursing VII

8 semester hours

Focuses on meeting the health care needs of a diversity of adult clients in complex and life-threatening adaptive situations. Students use critical thinking skills in assisting clients to attain and maintain an optimal level of wellness. They collaborate with clients and the interdisciplinary team in acute care and community settings in the im-

plementation of preventive, restorative, and rehabilitative activities designed to maintain optimal health of holistic man. Learning experiences are provided in medical centers/hospitals so that the student can continue to develop proficiency as a clinician, teacher, and consumer of research. Emphasis directed toward learning activities which allow student to function as a leader and consultant to improve the quality of health care.

Prerequisites: 82.311, 82.312

82.413 Nursing Trends and Issues

3 semester hours

Explores the nature of professional nursing as it occurs in our society with particular reference to the health care system and the future. Uses seminar format to explore and analyze current issues and trends in professional nursing.

Prerequisites: 82.311, 82.312

Faculty Credentials

M. CHRISTINE ALICHNIE

B.S., University of Pittsburgh; M.S., Wilkes College; M.S., Ph.D., University of Pennsylvania

JEAN E. BERRY

B.S.N., Georgetown University; M.S.N., University of Pennsylvania

ROBERT L. CAMPBELL

R.N., Robert Packer Hospital School of Nursing; B.S.N., University of Pittsburgh; M.N., University of Washington

MARY ANN CEGIELSKY

R.N., Ashland State Hospital School of Nursing; B.S.N., The Pennsylvania State University; M.S.N., Villanova University

CAROLYN M. DALTON

B.S., M.S., The University of Connecticut

MARY A. GAVAGHAN

B.S.N., M.S.N., University of Pennsylvania; Ed.D., Temple University

SANDRA G. GIRTON

B.S.N., M.N., University of Pittsburgh

ANNETTE GUNDERMAN

B.S.N., Bloomsburg University; M.S.N., The Pennsylvania State University

JEAN K. KALAT

R.N., New England Baptist School of Nursing; B.S.N., University of Vermont; M.S.N., Texas Women's University

SHARON S. KRIBBS

R.N., Harrisburg Hospital School of Nursing; B.S., Bloomsburg State College; M.N., The Pennsylvania State University

CATHY E. LIVENGOD

B.S., Alderson-Broaddus College; M.S.N., West Virginia University

BERNADINE T. MARKEY

B.S., Bloomsburg University; M.S., The Pennsylvania State University

NANCY A. ONUSCHAK

B.S., M.S.Ed., Wilkes College; M.N., The Pennsylvania State University; Ed.D., Temple University

ALEXIS BULKA PERRI

B.S.N., M.S.N., University of Pennsylvania

LAURETTA PIERCE

R.N., Harrisburg Polyclinic Hospital School of Nursing; B.S.Ed., Temple University; M.S.N., University of Pennsylvania; Ph.D., Thomas Jefferson Medical College

GLORIA J. SCHECHTERLY

Diploma, Geisinger Medical Center School of Nursing; B.S.N., Wilkes College; M.S., The Pennsylvania State University

JOAN B. STONE

R.N., Harrisburg Hospital School of Nursing; B.S.N., University of Pennsylvania; M.S.N., D.Ed., The Pennsylvania State University

PATRICIA B. TORSELLA

B.S.N., M.S.N., University of Pennsylvania

DORETTE E. WELK

B.S.N., D'Youville College; M.S.N., University of Pennsylvania; Ph.D., The Pennsylvania State University

L. PATRICIA ZONG

B.S.N., M.S.N., University of Pennsylvania

Courses for Non-Matriculating RNs

The following courses are offered through the School of Extended Programs on a demand basis for RNs not matriculated with the BSN program. The courses are designed to expand their knowledge and skills bases in the research process in nursing.

**82.204 Critical Evaluation of Research
in Nursing**

1 semester hour

Introduces research methods and techniques. The focus is on the student as a consumer of research with emphasis critiquing research studies for application and the ethics of research with human subjects.

82.205 Research Application in Nursing

1 semester hour

Focuses on the contribution of research to the discipline and the consumer's role in applying research findings. Emphasizes identifying researchable problems and improving practice through application of research findings.

Prerequisites: 82.204, statistics course

82.206 Proposal Writing in Nursing

1 semester hour

Focuses on the research process in identifying a researchable problem and formulating a beginning level research prospectus. Emphasizes conceptualization of a design to study a research problem.

Prerequisite: 82.204, 82.205, statistics course, or consent of instructor

Department of Business Education and Office Administration

College of Business

Chairperson

John J. Olivo Jr.

Nancy A. Dittman

Roger W. Ellis

Professor

John J. Olivo Jr.

Assistant Professors

Donna J. Cochran

Dennis O. Gehris

Associate Professors

Ellen M. Clemens

Janice C. Keil

Degree Program

Bachelor of Science in Office Administration

A total of 84 to 87 semester hours is required for a major in office systems. This total reflects program requirements and General Education courses.

Goals and Objectives

Office systems is a relatively new field of study that focuses on the impact of technology on the end-user. Office systems is one component of business information systems. The program in office systems at Bloomsburg is modeled after the Office Systems Research Association Curriculum which has been endorsed by business, industry, and educational institutions of higher learning. This program provides the student with the skills and knowledge to manage human resources, technology, and the environment and to update procedures in today's highly competitive business world. Currently, only 68 universities in the nation offer a degree in office systems. The program at Bloomsburg University is considered to be a national model.

Required Courses

Required courses include: General Business 90.101 and 90.333; Accounting 91.220 (91.221 and 91.222) and 91.223; Computer and Information Systems 92.150; Management 93.344, 93.446, and 93.449; Office Systems 94.221, 94.302, 94.330, 94.401, 94.403, and 94.405. Finance 96.313; Marketing 97.310; and Business Law 98.331 and 98.332.

Electives and Free Electives

Students must choose 9 to 12 semester hours from courses in General Business, Accounting, Computer and Information Systems, Management, Office Systems, Finance, Marketing, and Business Law. Students must choose 8 hours from credit courses listed in the catalog.

General Education Courses

The following are required General Education courses: English 20.101 and 20.201; Speech Communication 25.103; Economics 40.211, 40.212, and 40.346 or Mathematics 53.118; 53.142; and 3 semester hours in values; 3 semester hours in survival, 12 semester hours in humanities, 6 semester hours in social and behavioral sciences, and 9 semester hours in natural sciences and mathematics.

OFFICE SYSTEMS (Code 94)

94.221 Office Systems Concepts

3 semester hours

An overview of office systems—technology, people, and procedures — within organizational and environmental contexts. Major technologies, both hardware and software, that support information creation, storage, retrieval, manipulation, and distribution are covered. Introduces applications and systems software using computer laboratory projects.

94.302 Business Document Generation

3 semester hours

Provides the student with the opportunity to use the computer and business application software to produce business documentation.

94.330 Telecommunication Systems Management

3 semester hours

An introduction to telecommunications in the business environment. Topics include telephone, data codes, protocols, network architectures, local area networks, communications media, hardware, and software. Management issues and practical applications are integral to course. Emphasis on application of telecommunications to facilitate information interchange in whatever form the information takes: data, voice, text, and image.

Prerequisite: Junior standing

94.401 Information Resource Management

3 semester hours

Provides a study of records creation, inventory and analysis, active/inactive records maintenance, storage and retrieval, micrographics, and computer information management systems.

Prerequisite: Senior standing

94.403 Office Systems Management

3 semester hours

A study of the most acceptable methods and practices of office systems. Topics include organization and planning of office systems, human relations, controlling operations, and processing information. Emphasis on competencies needed for organizing and administering automated office systems.

Prerequisite: Senior standing

94.405 Training and Development in Office Systems

Spring

3 semester hours

Application of theories of learning and instructional development to the education and training of employees in office systems. Topics include instructional design, technology, and the implementation, evaluation, and management of training in an organizational environment.

Prerequisite: Senior standing

Faculty Credentials

ELLEN M. CLEMENS

B.S., M.Ed., Bloomsburg State College; D.Ed., The Pennsylvania State University

DONNA J. COCHRANE

A.A.S., Dutchess Community College; B.S., M.S., State University of New York at Albany; Ed.D., Temple University

NANCY A. DITTMAN

B.S., Florida State University; M.Ed., University of Florida; Ed.D., University of Colorado

ROGER W. ELLIS

B.S., M.Ed., Bloomsburg University; Ed.D., Arizona State University

DENNIS O. GEHRIS

B.S., M.A., Rider College; Ed.D., Temple University

JANICE C. KEIL

B.S., M.Ed., Bloomsburg State College

JOHN J. OLIVO JR.

B.S., Davis and Elkins College; M.Ed., Trenton State University; Ph.D., Michigan State University

Department of Philosophy

College of Arts and Sciences

Chairperson

Marjorie A. Clay

Marjorie A. Clay

Oliver J. Larmi

Professors

Richard J. Brook

William L. Carlough

Assistant Professor

Scott C. Lowe

Degree Program

Bachelor of Arts in Philosophy

A total of 30 semester hours is required for a major in philosophy.

Goals and Objectives

The Department of Philosophy offers a broad range of courses designed to provide both a general acquaintance with the issues and methods of philosophy as well as a solid foundation for advanced work in the discipline. In all of its courses, the department seeks to encourage students to develop their thinking skills, by engaging them with the best minds of the past and present, by challenging them to examine and to criticize the arguments of others, and by leading them to question their own values and commitments. Regardless of topic or level of difficulty, philosophy courses provide a unique opportunity to acquire and to practice a variety of valuable skills, such as the ability to solve problems, to communicate effectively, and to assess the strength and cogency of opposing arguments and proposed plans of action.

The five-member department offers both a major and a minor in philosophy, and also supports the university's liberal arts mission by including courses that satisfy various General Education requirements (i.e., in the Humanities division and in the area of Values, Ethics, and Responsible Decision-Making). Students who complete a major or a minor in philosophy are well prepared to pursue advanced work in the discipline or to apply their philosophical skills in multiple career settings such as law, medicine, business, or government.

Required Courses

The following courses are required: Philosophy 28.212, 28.221, 28.224, 28.228 or 28.229; plus one course from 28.303, 28.304, 28.305, 28.306, 28.307, or 28.351.

Elective Courses

Five elective courses must also be selected in addition to the required courses for this degree program.

Minor in Philosophy

A total of 18 semester hours is required for a minor in philosophy. Required courses are: 28.111, 28.212, and 28.220. Three additional elective courses must be selected.

PHILOSOPHY
(Code 28)

28.111 Introduction to Philosophy

3 semester hours

Presents reflective inquiry into selected problems of general philosophic interest. Consid-

ers the types of knowledge, the nature of reality, individual and social values, and the existence of God.

28.212 Logic

3 semester hours

Reviews methods and principles of reasoning

with applications to contemporary debates. Examines informal fallacies, the syllogism, predicate calculus, sentential calculus, quantification, and induction.

28.213 Logic and Computing
Spring/Even-numbered Years

3 semester hours

Introduces fundamental areas where logic and computation intersect including the propositional calculus and the design of logic circuits; validity and proof; Turing machines and logic programming. Stress on algorithmic methods for translation and proof.

28.220 Ethics

3 semester hours

Studies ethical theory focusing on such issues as ethics as a branch of knowledge, egoism vs. altruism, and role of intentions and consequences in moral judgements. Reviews theories such as relativism, utilitarianism, and Kantianism. Investigates concepts of "rights" and "justice."

28.221 Plato and Aristotle
Spring/Odd-numbered Years

3 semester hours

Studies the origins of Western philosophy in ancient Greece. Examines Plato's philosophical writings in light of pre-Socratic speculation on one hand and in terms of Aristotle's criticisms and developments on the other.

28.224 Descartes to Kant
Fall/Odd-Numbered Years

3 semester hours

Examines the writings of the 17th and 18th century philosophers: Descartes, Hobbes, Locke, Berkeley, Hume, Kant, and others. Topics include the nature of reality, the sources and limits of knowledge, the relation between mind and body, and the possibility of a rational basis for religious belief.

28.228 Existentialism
Spring/Even-numbered Years

3 semester hours

Studies the writings of philosophers and

theologians such as Kierkegaard, Nietzsche, Husserl, Sartre, and Tillich. Major themes include human subjectivity, human freedom, alienation, and meaning.

28.229 Contemporary Philosophy
Fall/Odd-numbered Years

3 semester hours

Examines 20th century philosophical movement concerned with logical analysis. Emphasizes the analysts' reconstruction of the relation between language and philosophy, particularly theories of knowledge, ethics, and religion.

28.270 Religions of the East
Fall/Odd-numbered Years

3 semester hours

Examines religious beliefs from primitive stages to the developed systems of Hinduism, Buddhism, Confucianism, Taoism, and Shinto. Emphasizes beliefs, traditions, and practices rather than historical data.

28.271 The Western Religious Tradition
Spring/Even-numbered Years

3 semester hours

Examines the four great monotheisms, Zoroastrianism, Judaism, Christianity, and Islam. Inquires into the original literature as well as the evolving theologies. Discusses modern issues within these religious traditions.

28.290 Medical Ethics

3 semester hours

Investigates moral issues that arise in such medical contexts as human experimentation, death and dying, medical care and its distribution, genetic engineering, and the definition of health and illness.

28.292 Contemporary Moral Problems
3 semester hours

Investigates some of the major contemporary (and perennial) moral problems: abortion and the rights of the fetus; pornography and its control; crime and its punishment; obedience to laws; discrimination based on race

and sex; decision-making procedures; social justice; drugs, suicide, and euthanasia; freedom and its limits.

28.294 Ethics, Politics, and Public Policy
3 semester hours

An examination of normative, descriptive, and metaethical approaches employed by politicians and policy makers in confronting issues of responsibility and choice in public programs and policies. Focuses on the ethical problems and responses in civic life and emphasizes the ways alternatives impact on society.

28.295 Business Ethics
Spring/Even-numbered Years

3 semester hours

Review of moral canons in relation to business practice. Moral concepts are applied in analyzing situations. Utilitarianism, Kantianism, and contemporary Egalitarianism are introduced as aids in decision making. General principles and concrete cases considered.

28.303 Philosophy of Science
Fall/Even-numbered Years

3 semester hours

Analyzes the logic of inquiry in the natural and social sciences; the nature of scientific explanation, problems of causality, measurement, prediction, and verification.

28.304 Philosophy of the Social Sciences

Spring/Odd-numbered Years

3 semester hours

Examines conceptual problems in the social science disciplines including reductionism, objectivity, classification, explanation, and nature of laws.

28.305 Philosophy of Law
Fall/Even-numbered Year

3 semester hours

Examines the theoretical background of the law and legal systems. Encourages students to develop their own views about the proper use of the law. Topics include the concepts of

"law" and "legal system," limits of the law, and justification of punishment.

28.306 Philosophy of Religion
Fall/Even-numbered Years

3 semester hours

Presents a critical analysis of the origins and nature of faith. Emphasizes types of religion, evidence supporting religious belief, and problems in and challenges to religion.

28.307 Contemporary Political Philosophy
Fall/Odd-numbered Years

3 semester hours

Studies the nature of the good and just state. What are the limits and powers of the state? Investigates competing theories of neo-Aristotelianism, utilitarianism, contractarianism, libertarianism, Marxism, and anarchism. Important questions concerning the obligations of an individual citizen to the state are also addressed.

28.350 Environmental Ethics

3 semester hours

Surveys attitudes towards nature, our relationship to it, the role of technology, and discusses the ethical dimensions of the environmental crisis.

28.351 Theory of Knowledge
Spring/Odd-numbered Years

3 semester hours

Inquires into the problem of knowledge, certainty, and skepticism. Reviews the theory of perception; discusses concepts of meaning and truth.

28.352 Minds, Brains and Computers

3 semester hours

Explores the philosophical foundations of the interdisciplinary field of cognitive science. Topics discussed include contemporary scientific solutions to the mind-body problem, the possibility of artificial intelligence, and the nature and success of cognitive explanations in psychology.

28.470 Independent Study in Philosophy
3/6 semester hours

Provides for individual study of a particular philosophical problem under the guidance of the staff. Emphasizes independent research on topics selected by the student and the faculty member. Course may be taken twice.

Prerequisite: 6 semester hours of philosophy
See section on Independent Study.

28.471 Seminar

3 semester hours

Studies selected problems in philosophy.

Faculty Credentials

RICHARD J. BROOK

B.A., Antioch College; M.A., Columbia University; Ph.D., New School, N.Y.C.

WILLIAM L. CARLOUGH

B.A., Hope College; B.D., Western Theological Seminar; S.T.M., General Theological Seminary; Ph.D., New York University

MARJORIE A. CLAY

B.A., University of Oklahoma; M.A., Northwestern University; Ph.D., State University of New York at Buffalo

OLIVER J. LARMI

A.B., Dartmouth College; Ph.D., University of Pennsylvania

SCOTT C. LOWE

B.A., College of William and Mary; M.A., Ph.D., University of Virginia

Department of Physics

College of Arts and Sciences

Chairperson

David J. Harper

Professors

David J. Harper

P. James Moser

M. Gene Taylor

Associate Professors

Jack G. Couch

P. Joseph Garcia

Levi J. Gray

Stephen G. Wukovitz

Assistant Professors

Gunther L. Lange

Peter C. Stine

Degree Programs

Bachelor of Arts in Physics, Bachelor of Science in Physics,

Bachelor of Science in Health Physics

The bachelor of arts program requires 128 semester hours for a major in physics.

The bachelor of science program requires 128 semester hours for a major in physics.

The bachelor of science program requires 128 semester hours for a major in health physics.

Goals and Objectives

The bachelor of arts in physics provides a background suitable for direct entry into employment by industry or government. It meets the specifications for qualification as a physicist of the Civil Service Commission. This degree also provides the qualifications necessary for admission to graduate study in most colleges and universities offering master of science and doctor of philosophy degrees in physics and in other specialized interdisciplinary fields. Students may combine the physics degree with an engineering degree through the engineering/liberal arts program offered by Bloomsburg University in cooperation with The Pennsylvania State University or Wilkes University. (See section on *Engineering and Liberal Arts*.)

The bachelor of science in physics provides the opportunities and qualifications of the bachelor arts degree, with greater emphasis on the area of specialization.

The profession of health physics is devoted to the protection of people and their environment from potential radiation hazards, while at the same time making it possible for our advancing civilization to enjoy all the benefits resulting from the controlled use of radiation. Health physicists are employed in industrial laboratories, medical centers, and government agencies.

The bachelor of science in health physics provides a sound background of courses in physics, mathematics, chemistry and biology, as well as specialized courses in health physics. Modern laboratories introduce students to state-of-the-art instrumentation and advanced techniques of measurement. An internship course provides experience of the application of health physics in industrial, medical, or government environments. The program provides the qualifications needed for direct entry into the practicing profession or into graduate school for greater specialization in health physics.

Bachelor of Arts in Physics

Required courses: Physics 54.211, 54.212, 54.302, 54.310, 54.314, 54.400; 12 semester hours chosen from other physics courses numbered above 300; Mathematics 53.125, 53.126, 53.225, 53.322; Computer Science 56.210; Chemistry 52.111, 52.112, 52.113 (or 52.113, 52.118, if criteria are met).

Bachelor of Science in Physics

Required courses: Physics 54.211, 54.212, 54.302, 54.310, 54.314, 54.400, 54.450; 15 semester hours chosen from other physics courses numbered above 300; Mathematics 53.125, 53.126, 53.225, 53.322; Computer Science 56.210; 3 semester hours chosen from Mathematics 53.226, 53.314, or Computer Science 56.373; Chemistry 52.111, 52.112, 52.113 (or 52.113, 52.118, if criteria are met).

Bachelor of Science in Health Physics

Required courses: Physics 54.211, 54.212, 54.310, 54.315, 54.320, 54.330, 54.360, 54.420, 54.460, 54.470; Mathematics 53.125, 53.126, 53.225, 53.241, 53.322; Computer Science 56.210; Chemistry 52.111, 52.112, 52.113 (or 52.113, 52.118, if criteria met); Biological and Allied Health Sciences 50.110, 50.120, 50.411.

Minor in Physics

Required courses: Physics 54.211, 54.212, 54.315, 54.316, 54.317. These courses must be taken in sequence.

Requirements for the bachelor of science in education with a concentration in physics are found in the section on *Secondary Education*.

For more information on the associated engineering program, see section on *Engineering and Liberal Arts*.

**PHYSICS
(Code 54)**

54.101 Basic Physical Science

3 semester hours

An introductory integration of concepts and principles from chemistry, physics, and astronomy, with consideration for the nature of scientific thought and the interaction of science with human and community concerns. For nonscientists. Three hours class per week.

54.103 Principles of Physical Science

3 semester hours

An integrated physical science course emphasizing laboratory experience. Provides an introduction to the basic concepts of physical science by studying such topics as the structure and properties of matter, motion and forces, energy, light and sound, electricity and magnetism, and astronomy. For elementary education majors. Four hours class/laboratory per week.

54.104 Elementary Electronics

3 semester hours

An introduction to basic electronics that gives students in nonphysical science areas some theoretical and practical knowledge of electronic circuits, instruments, and devices. No experience of physics or electronics required. Three hours class per week.

54.105 Energy: Sources and Environmental Effects

3 semester hours

Explains energy in elementary scientific terms and examines present national and international energy situations in regard to sources, utilization, and environmental effects. Surveys fossil fuels and nuclear, solar, geothermal, and other energies with respect to availability and promise for the future. Three hours class per week.

54.106 The Science of Sound

3 semester hours

Provides an introduction to the principles of sound and its reproduction for students in nonphysical science disciplines. Knowledge

of basic algebra required, but no experience in physics or electronics necessary. Three hours class per week.

54.107 Applied Physics for Health Sciences

Spring 4 semester hours

Studies selected principles of physics with applications to the processes and instrumentation of medical technology. Examines mechanics, fluids, kinetic energy and heat, optics, electricity and magnetism, electronics, atomic structure, radiation, and data acquisition and readout. Six hours per week: 3 class, 3 laboratory.

54.110 Introduction to Astronomy

3 semester hours

Surveys the physical state of the universe and the variety of objects it comprises: solar system, stars, galaxies. Provides a descriptive account of the present state of our knowledge of the cosmos and an understanding of how such knowledge is obtained. Intended for nonscience majors. Three hours class per week.

54.111 Introductory Physics I

Fall 4 semester hours

Presents an approach to selected topics such as mechanics, heat, kinetic theory, molecular theory of gases, wave motion, and sound. Not intended for students specializing in physics or chemistry. Six hours per week: 3 class, 3 laboratory.

54.112 Introductory Physics II

Spring 4 semester hours

Studies electricity, magnetism, light, relativity, quantum and atomic theory, structure of matter, nuclear physics and particle physics. Continuation of 54.111. Six hours per week: 3 class, 3 laboratory.

Prerequisite: 54.111, or consent of instructor

54.211 General Physics I

4 semester hours

An introduction to physics using calculus. Studies mechanics, the physics of fluids, ki-

netic theory, heat, and thermodynamics. Appropriate for physical science or mathematics majors. Six hours per week: 3 class, 3 laboratory.

Prerequisite: Mathematics 53.125 or concurrent registration

54.212 General Physics II

4 semester hours

Studies wave motion, sound, geometrical and physical optics, electricity, and magnetism. Continuation of 54.211. Six hours per week: 3 class, 3 laboratory.

Prerequisites: Mathematics 53.126 or concurrent registration; 54.211, or 54.111 with consent of instructor

54.301 Mechanics: Statics

Fall/Alternate Years 3 semester hours

Introduces the fundamentals of statics, with an emphasis on vector methods, at a level appropriate for physical science majors and for students considering a career in the engineering field. Three hours class per week.

Prerequisites: Mathematics 53.126 or concurrent registration; 54.211, or 54.111 with consent of instructor

54.302 Mechanics: Dynamics

Spring/Alternate Years 3 semester hours

Introduces the fundamentals of dynamics, with an emphasis on vector methods, at a level appropriate for physical science majors and for students considering a career in an engineering field. Three hours class per week.

Prerequisites: Mathematics 53.225 or concurrent registration; 54.212, or 54.112 with consent of the instructor

54.310 Modern Atomic Physics

Fall 3 semester hours

Presents some of the basic concepts and phenomena that constitute modern physics, including studies of the quantum nature of radiation, atomic structure and spectra, X-rays, relativity, wave-particle duality, the uncertainty principle, and a brief introduction to nuclear physics and radioactivity. Three hours class per week.

Prerequisite: 54.212, or 54.112 with consent of instructor; Mathematics 53.126

54.314 Electricity and Magnetism

Alternate Years 3 semester hours

Studies electric and magnetic fields and potentials, electric and magnetic properties of matter, electrodynamics, and electromagnetic waves. Three hours class per week

Prerequisites: 54.212, or 54.112 with consent of instructor; Mathematics 53.225

54.315 Electronics

Alternate Years 4 semester hours

Presents the theory and application of semiconductors with special emphasis on circuitry. Studies basic electronic instrumentation as related to the gathering, processing, and display of scientific data in any discipline. Six hours per week: 3 class, 3 laboratory.

Prerequisite: 54.112 or 54.212

54.316 Digital Electronics

Alternate Years 3 semester hours

An introduction to the techniques and devices of digital electronics. Includes practical experience of the building and testing of digital circuits. Supplies the background necessary for the understanding of microprocessors and computer circuits. Three hours class per week.

Prerequisite: Junior standing, or consent of instructor

54.317 Computer Electronics

Alternate Years 3 semester hours

An introduction to the electronics and operation of digital computers. Intended for students with a background in digital circuitry. Includes practical experience of the operation and interfacing of microprocessors and other devices. Three hours class per week.

Prerequisite: 54.316 or consent of instructor

54.318 Optics

Alternate Years 3 semester hours

Presents a combination of geometrical optics including lens theory with physical (wave)

optics including diffraction, interference, polarization, lasers, and coherent light. Three hours class per week.

Prerequisite: 54.212, or 54.112 with consent of the instructor

54.320 Nuclear Radiations I

Alternate Years 2 semester hours

Presents a laboratory-oriented course using modern nuclear electronics and detectors for measuring and analyzing nuclear radiations. Four hours per week: 1 class, 3 laboratory.

Prerequisite: 54.310 or concurrent registration

54.330 Radiation Physics

Alternate Years 3 semester hours

Presents properties and models of nuclei, radioactive decay, radiation and its interaction with matter, and nuclear applications. Three hours class per week.

Prerequisite: 54.310 or concurrent registration.

54.360 Health Physics

Alternate Years 3 semester hours

Presents a study of the principles of health physics, including biological effects of radiation, dosimetry, radiation measurement and radiation protection. Three hours class per week.

Prerequisite: 54.310 or concurrent registration.

54.400 Advanced Physics Laboratory

Alternate Years 2 semester hours

Presents the basic tenets of lab work in physics, involving considerations of experimental error, proper research and preparation of an experiment. Includes experiments primarily from the areas of atomic physics, electricity, magnetism, and optics. Four hours per week: 1 class, 3 laboratory.

Prerequisites: 54.310, 54.314

54.420 Nuclear Radiations II

Alternate Years 2 semester hours

A laboratory course which presents advanced techniques of nuclear measurement,

and includes applications involving environment monitoring and health physics. Four hours per week: one class, three laboratory.
Prerequisite: 54.320 or consent of instructor

54.421 Solid State Physics

Alternate Years 3 semester hours

Examines physical properties of matter in the solid state. Reviews basic quantum concepts, crystal structure, electrons in metals, electrical conductivity, semiconductors, band theory and the p-n junction. Studies dielectric and magnetic properties of matter. Three hours of class per week.

Prerequisites: 54.310, 54.314; Mathematics 53.225

54.422 Thermodynamics

Alternate Years 3 semester hours

Presents concepts and principles of classical thermodynamics, thermodynamics of simple systems, introduction to kinetic theory, and statistical thermodynamics. Three hours of class per week.

Prerequisites: 54.212, or 54.112 with consent of instructor; Mathematics 53.225

54.450 Introduction to Quantum

Mechanics

Alternate Years 3 semester hours

Examines the development and interpretation of Schroedinger's wave mechanics, its mathematical formalism, and the results and predictions of this quantum theory as applied to one-dimensional systems, the hydrogen atom, and multi-electron atoms. Three hours class per week.

Prerequisites: 54.310; Mathematics 53.225

54.460 Applied Health Physics

Alternate Years 3 semester hours

Presents advanced topics involving health physics principles and radiation protection standards as applied to science, industry, and medicine. Three hours of class per week.

Prerequisite: 54.360 or consent of instructor.

54.490 Seminar in Physics

1 semester hour

A selected topic in physics is studied, and prepared in a form suitable for presentation. Student attends and participates in physics seminars and makes a presentation in the same semester as that of enrollment in the course.

54.491 Independent Study in Physics

1-3 semester hours

Investigates an area of special interest and value to the student, under the direction of a faculty member, following a plan approved in advance by the department chairperson. May be partly interdisciplinary and may involve limited experimental work.

54.493 Independent Research

1-3 semester hours

Provides for an application of theoretical and/or experimental research methods to a special problem. May be interdisciplinary. Requires the preparation of a report. Requires a plan, approved in advance by the department chairperson, which is acceptable to the student and the supervising faculty member.

54.494 Honors Independent Study in Physics

3 semester hours

Provides the qualified student with an opportunity to participate in an advanced experimental or theoretical investigation of a current problem in physics, under the supervision of a physics faculty member having expertise in the student's proposed research area.

Faculty Credentials

JACK G. COUCH

B.A., Utah State University; M.A., Vanderbilt University; Ph.D., Texas A & M University

P. JOSEPH GARCIA

B.S., Kent State University; M.S., New Mexico Highlands University; D.Ed., The Pennsylvania State University

LEVI J. GRAY

B.S., University of Pittsburgh; Ph.D., Syracuse University

DAVID J. HARPER

B.Sc., Ph.D., University of Nottingham, England

GUNTHER L. LANGE

B.S., Ph.D., The Ohio State University

P. JAMES MOSER

B.S., M.S., Ph.D., The Pennsylvania State University

M. GENE TAYLOR

B.S., Muskingum College; M.S., Ph.D., Brown University

PETER C. STINE

B.A., Wesleyan University; Ph.D., The Pennsylvania State University

STEPHEN G. WUKOVITZ

B.A., M.A., Montclair State College

Department of Political Science

College of Arts and Sciences

Chairperson

Robert L. Rosholt

Professor

Robert L. Rosholt

Associate Professors

Martin M. Gildea

James W. Percey

Assistant Professors

George Agbango

Richard L. Micher

Degree Program

Bachelor of Arts in Political Science

A total of 30 semester hours is required for a major in political science.

Goals and Objectives

The department offers courses in all the major subfields of political science for students who wish to acquire a thorough understanding of the art, science, theories, processes, and structures of governments and politics.

Introductory courses are designed for both majors and non-majors. The importance of government and politics (locally, regionally, nationally, and internationally) clearly points to political science as a critical element in the liberal education of any university student.

Advanced courses are offered for students who need in-depth study and specialized subject matter to serve as a foundation for careers in politics, law, public administration, community service, international relations, criminal justice, communications, or teaching.

All courses attempt to develop the student's ability to read carefully, communicate effectively, think critically, analyze logically, and research thoroughly. A balance is sought between abstract concepts and theories on the one hand and concrete structures, processes, and applications on the other. Field work and internships give students an opportunity to apply what they have learned in the classroom to the realities of contemporary society.

Required Courses

Required courses total 12 semester hours and include: 44.120 United States Government, 44.160 Nations, States, and Governments, 44.210 Introduction to Political Theory, and 44.280 Introduction to International Relations.

Elective Courses

Select a total of 18 semester hours, 12 of which must be upper division credits, i.e., at the 300 level or above.

Minor in Political Science

A total of 18 semester hours is required for a minor in political science. There are no required courses. Students should consider building a minor around one of the four subfields of political science, namely, U.S. Government, Comparative Government, International Politics, and Political Theory. Contact the Department of Political Science for details.

POLITICAL SCIENCE (Code 44)

44.101 Elements of Political Science

3 semester hours

The procedures of political science to study power, the processes of politics and the practices of governments, the performance of and the pressures on the political system. For non-majors.

44.108 Contemporary Political Ideologies

3 semester hours

An introduction to those political beliefs that shape contemporary politics: nationalism, liberalism, conservatism, capitalism, socialism, feminism, religious fundamentalism, populism.

44.120 United States Government

3 semester hours

Introduces government and politics in the United States emphasizing constitutional development, political development, civil rights, parties, elections, pressure groups, the Congress, the president, courts, and contemporary problems such as foreign affairs, defense, inflation, unemployment, energy, and poverty.

44.160 Nations, States, and Governments

3 semester hours

Presents a comparative study of the governance of countries or nation-states in selected developed and less-developed regions of the world.

44.181 Contemporary Issues in World Politics

3 semester hours

An introduction to international politics through an examination of such critical problems as war and peace, East-West relations, nuclear disarmament, nation-building, and revolution.

44.207 Ethics, Politics, and Public Policy

3 semester hours

Examination of normative, descriptive, and

metaethical approaches employed by politicians and policymakers in confronting issues of responsibility and choice in public programs and policies. Focuses on ethical problems and responses in civic life and emphasize the ways alternatives impact on society.

44.210 Introduction to Political Theory

3 semester hours

An introduction to fundamental political concepts such as liberty, justice, equality, power, and authority, as well as the main ideas of some representative political philosophers from Socrates to the present.

44.244 Introduction to Criminal Justice

3 semester hours

Provides students with a comprehensive survey and basic understanding of the role and function of the criminal justice field. Attention is given to crime and criminal law, the police, law enforcement, courts, corrections, and juvenile justice.

44.280 Introduction to International Relations

3 semester hours

Examines sources of international conflict and cooperation, power politics in the international arena, problems of collective security, the settlement of disputes, diplomacy, revolution, and international law.

44.303 Politics and the Arts

3 semester hours

Surveys painting, music, films, poetry, and novels to show the relationship between these media and political concepts, philosophies, and problems.

44.322 Political Violence

3 semester hours

Surveys individual, group, and mass political violence, concentrating on causes and manifestations. Studies positive and negative effectiveness of political violence with the object of placing the phenomena in meaningful historical and contemporary contexts.

44.326 Parties, Groups, and Public Opinion

3 semester hours

Examines the development of political parties in the United States; elections, voter behavior, and political participation; and the role of interest groups and political propaganda.

44.331 Legal and Political Aspects of Business

3 semester hours

Describes and analyzes the legal environment surrounding business, concentrating on the role of government, especially the courts, in affecting business relationships. The impact of administrative regulatory agencies and government policies, such as affirmative action, are analyzed.

44.336 Public Administration Theory

3 semester hours

Includes leadership/followership and motivation/manipulation propositions on personnel management; conflict, competition, and cooperation propositions about budgeting; and information-communication propositions in relation to planning.

44.363 U.S.S.R. Political System

3 semester hours

Studies the history, development, ideology, institutions, and policies of the Soviet political system.

44.366 Political Systems of Western Europe

3 semester hours

Democracy as practiced in Western Europe; the politics and government of Great Britain, France, and Germany; comparisons with the United States; principles of comparative analysis.

44.371 Political Systems—Africa

3 semester hours

Examines problems of newly independent states, the struggle for independence, attempts to create national unity and create

political stability, economic and political development, the role of the military in politics, and politics in the Republic of South Africa.

44.373 Government and Politics in China and India

3 semester hours

Studies politics and government in selected states with an emphasis on the forces which shape domestic and foreign politics and processes.

44.376 Government and Politics of the Middle East

3 semester hours

Introduces the political history and governments of particular states in the region and considers their interactions regionally and internationally. The course considers in particular the importance of Islam in politics, the Arab-Israeli conflict, the Iranian revolution, the Iraqi wars.

44.405 Development of Political Thought

3 semester hours

A chronological survey from the ancient Greeks to the present is undertaken to present the ideas of seminal political thinkers as they grapple with perennial problems.

44.409 American Political Thought

3 semester hours

Analyzes the relationship of American political thought to contemporary political science by using traditional materials in a historical, chronological way but reworking them to show their relation and relevance to actions and institutions. The main ideas of the leading political thinkers in America from the colonial period to the present are included.

44.412 Scope, Approaches, and Methods of Political Science

3 semester hours

Analyzes the various approaches and methods currently in use in political science.

44.437 Public Administration Applications

3 semester hours

Readings, cases, and simulations are used and a term paper based on a government agency's data is required.

44.438 Public Personnel Administration

3 semester hours

Public service as a career; personnel needs of national, state, and local governments; civil service law; personnel systems; and current problems.

44.440 The President and Congress

3 semester hours

Reviews presidential and congressional politics, public policy-making roles, executive-legislative relationships, and constitutional issues. Examines problem areas and proposals for reform.

44.446 Constitutional Law I

3 semester hours

Analyzes the evolution, structure, and function of the Supreme Court, concentrating on a case-study approach to the court's interpretations of the powers of the president, Congress, and federal-state relationships.

44.447 Constitutional Law II

3 semester hours

Studies decisions of the Supreme Court as they relate to the individual and the government, concentrating on nationalization of the Bill of Rights, rights of persons accused of crime, equal protection, and voting rights.

44.448 The Judicial Process

3 semester hours

Studies policymaking by the federal courts, primarily the Supreme Court. The nature of the policymaking function as well as the impact of policy-making on American society also are analyzed.

44.452 State and Local Government and Politics

3 semester hours

Presents a description and analysis of state and local legislatures, executives, and judiciaries, the myths and realities of state and local politics, intergovernmental relations, current policies, and problems.

44.456 Public Policy

3 semester hours

Agenda setting by initiating issues and gate keeping by framing problems, estimating forecasts, selecting recommendations, monitoring implementation, and analyzing evaluation are the procedural considerations. Application is made to the substantive areas of redistribution, subsidy, regulation, and management.

44.458 U.S. Foreign Policy

3 semester hours

Analyzes the substance, methods, and purposes of U.S. foreign policy including the determinants of policy, policymaking machinery, and implementation matters.

44.464 Government and Politics of Ireland

3 semester hours

A survey of historical, social, cultural, and religious developments in Ireland with concentrated study of the government and politics of Northern Ireland and the Irish Republic. Examines contemporary literature, drama, music, and art.

44.487 International Law and Organization

3 semester hours

Presents the theoretical and practical implications of the legal and organizational efforts to regulate international relations with emphasis on international law, the United Nations, the International Court of Justice, and regional and functional organizations.

44.490 Independent Study in Political Science

1-6 semester hours

Provides for individualized reading, research, and reporting under conditions of minimal supervision. Projects must have departmental approval and be underway by the end of the first week of a session.

44.491 Readings in Government and Politics

3 semester hours

Topics are selected on the basis of close consultations between instructor and student. Designed for group or individual study.

44.492 Seminar in Government and Politics

3 semester hours

Examines problems in government and politics in an attempt to review and unify theories and methods of political science. Emphasizes individual research projects.

44.496 Field Experience in Political Science

1-6 semester hours

Research beyond the classroom in applied areas of political science. May be taken to prepare for, or to follow-up, the "Internship" course. The student is supervised by an instructor. A paper is required.

44.497 Internship in Political Science

1-15 semester hours

Provides for on-site work experience and training designed to give an opportunity to apply the theoretical and descriptive knowledge acquired in the classroom, or the "Field Experience" course, to the political, legal, organizational, and administrative operations of contemporary institutions. The student is supervised by an instructor and an on-site person. A paper is required.

Faculty Credentials

GEORGE AGBANGO

Specialist Certificate (Geography), University of Cape Coast, Ghana; M.P.A., Clark Atlanta University

MARTIN M. GILDEA

B.A., St. Vincent College; M.A., University of Notre Dame

RICHARD L. MICHERI

B.A., Fordham University; M.A., Columbia University

JAMES W. PERCEY

A.B., University of Pennsylvania; M.A., Rutgers University

ROBERT L. ROSHOLT

B.A., Luther College; M.A.P.A., Ph.D., University of Minnesota

Department of Psychology

College of Arts and Sciences

Chairperson

J. Calvin Walker

Associate Professors

L. Richard Larcom

Professors

Eileen C. Astor-Stetson
 John S. Baird Jr.
 Donald A. Camplese
 Steven L. Cohen
 James H. Dalton Jr.
 Michael W. Gaynor
 Alex J. Poplawsky
 Constance J. Schick
 J. Calvin Walker

Assistant Professors

Brett L. Beck
 Kambone Camara
 Winona J. Cochran
 Julie M. Kontos
 Joseph G. Tloczynski
 John E. Waggoner

Degree Program

Bachelor of Arts in Psychology

A total of 39 semester hours is required for a major in psychology.

Goals and Objectives

The Department of Psychology is committed to providing a strong undergraduate program for psychology majors and minors and to providing support courses for the university's general education curriculum. All classes for the major are taught by faculty who have earned doctorates in their specialty. Students in the major are expected to demonstrate a firm grounding in basic statistics and in experimental methodology and research, thus allowing them to excel in advanced theory and content courses. A degree in psychology from Bloomsburg University gives quality students an appropriate background for graduate study and research in all areas of the discipline and also offers qualified students a broad range of career possibilities with the potential for employment in settings such as : hospitals, clinics, counseling centers, nursing homes, community human services agencies, educational institutions, research organizations, or businesses.

The program of study in psychology requires the courses specified below:

I. *Freshman/Sophomore years:*

Core courses (18 semester hours)

48.101, 48.160, 48.281, 48.282, and two courses from 48.211 or 48.212, 48.251, 48.311

Note: 48.281 and 48.282 must be taken concurrently.

II. *Junior/Senior years:*

Content courses (15 semester hours)

two course from 48.360, 48.375, 48.380

one course from 48.335, 48.436

one course from 48.321, 48.350, 48.356, 48.451, 48.453, 48.463, 48.476

one course from any Group II: content course

III. *Senior year:*

Capstone courses (6 semester hours)

two courses from 48.341, 48.401, 48.406, 48.464, 48.466, 48.497

Minor in Psychology

A minimum of 18 semester hours in psychology as specified: 48.101, 48.160 (or Economics 40.346 or Sociology 45.260 or Mathematics 53.141), 48.281, and 9 semester hours, 6 of which must be at the 300 or 400 level.

PSYCHOLOGY (Code 48)

48.101 General Psychology

3 semester hours

Studies psychology as a system of scientific inquiry into the nature and behavior of humans. Presents major concepts, principles, and processes concerned with human functioning in individuals and social settings.

48.131 Psychology of Adjustment

3 semester hours

Examines the personal and social meaning of adjustment. Presents an operational approach to mental health including such concepts as anxiety, frustration, conflict, aggression, and defense.

48.160 Basic Statistics

3 semester hours

Introduces fundamental statistical concepts and principles providing a foundation for research methodology for students who need not be mathematically inclined. Discusses computation, interpretation, and application of commonly used descriptive, correlation, and inferential statistical procedures for analyzing data.

48.210 Life-Span Psychology

3 semester hours

Examines the psychology of human development from conception to death. Discusses traditional topics and issues in developmental psychology such as cognition and personality, but within a life-span developmental perspective.

Prerequisite: 48.101

48.211 Child Psychology

3 semester hours

Studies normal development and the interrelationships among various aspects of biological, cognitive, personality, and social factors.

cal, cognitive, personality, and social factors. Emphasizes prenatal to adolescent development.

Prerequisite: 48.101

48.212 Adolescence

3 semester hours

Studies developmental, personal, and social issues confronting adolescents as they emerge from childhood and strive for adulthood.

Prerequisite: 48.101

48.251 Social Psychology

3 semester hours

The study of interpersonal behavior with emphasis on affiliation, interpersonal perception and attraction, group behavior and conformity, attitude change, and compliance.

Prerequisite: 48.101

48.254 Psychological Aspects of Social Issues

3 semester hours

Examines the application of psychological theories and techniques to existing social issues and their relationship to alternative ethical viewpoints regarding social issues selected by the instructor for study.

Prerequisite: 48.101

48.271 Educational Psychology

3 semester hours

Examines principles of psychology as applied to the classroom. Emphasizes learning processes as affected by environmental, experiential, and developmental factors.

Prerequisite: 48.101

48.281 Experimental Psychology: Methodology

3 semester hours

Introduces experimental design, statistical

analysis, and issues of control and confounding. Surveys classical and learning experiments as well as issues in social, developmental, educational, and clinical psychology from an experimental perspective.

Prerequisites: 48.101 and 48.160 (with a minimum grade of C in each)

48.282 Experimental Psychology: Applications

3 semester hours

Surveys the application of designs and statistics to problems encountered in psychology. Addresses ethical issues in experimentation, the value of experimentation, and the limitations of research designs. Emphasizes discussion and application of various research strategies to contemporary and traditional problems in psychology.

Prerequisites: 48.101 (with a minimum grade of C), 48.160 (with a minimum grade of C), and 48.281 or concurrently taking 48.281

48.311 Adulthood and Aging

3 semester hours

Studies the development of adults in our culture. Includes topics on the effects of social environment on aging, special problems of aging, sex differences during adulthood, vocational, marital, and familial developments, and psychology of death and dying. Emphasizes human behavior between young adulthood and senescence with emphasis on the aging process.

Prerequisite: 48.101

48.321 Psychological Tests and Measurements

Fall

3 semester hours

Introduces the logic of psychological measurement including the applied and practical aspects of psychological testing with emphasis on reliability, validity, and test norms. Provides background for test evaluation.

Prerequisite: 48.101

48.335 Abnormal Psychology

Spring

3 semester hours

Surveys the description, causation, preven-

tion, and treatment of maladaptive behavior, as well as the ethical aspects of these issues. Considers biological, psychological, and social factors.

Prerequisites: 48.101 and Junior standing

48.341 Theory and Practice of Academic Psychology

3 semester hours

Sharpens and expands knowledge of the basic principles of psychology. Provides an intensive review of the content taught in General Psychology and requires students to lead discussion groups.

Prerequisites: Junior standing; 48.101, 48.160, 48.281, 48.282; and consent of the instructor

48.350 Psychology of Sex and Gender

3 semester hours

Examines the theoretical and research issues in psychological experiences of males and females. Views gender role development and implications for the daily lives of men and women from historical, biological, psychoanalytic, learning, sociological, and anthropological perspectives.

Prerequisites: 48.101, 48.160, and 48.281

48.356 Psychology of Motivation

Fall

3 semester hours

Surveys the fundamental determinants of human and animal activities. Studies theories, research methodologies, and experimental evidence related to the activation and the direction of behavior.

Prerequisites: 48.101; Junior standing; and 6 additional semester hours in psychology

48.360 Cognitive Psychology

Spring

3 semester hours

Examines the major theoretical perspectives and research in the area of cognition and presents the ways in which mental processes such as memory, perception, language, and problem solving may be empirically studied.

Prerequisites: 48.101, 48.160, and 48.281

48.375 Psychology of Learning

Fall 3 semester hours

Examines the theoretical and experimental bases of learning in animal and human behaviors. Studies situational and drive factors affecting learning, stimulus generalization, and discrimination, retention, and forgetting.

Prerequisites 48.101, 48.160, 48.281, 48.282, or consent of the instructor

48.380 Physiological Psychology

Spring 3 semester hours

Studies the relationship between psychological processes and physiological activity. Reviews neurological and biochemical bases of behavior with emphasis on the synergistic functions of the nervous system, sense organs, and glandular system.

Prerequisites: 48.101, 48.160, 48.281, and 48.282 or consent of instructor

48.401 History of Psychology

3 semester hours

Studies the historical development of modern psychology and compares present-day models of behavior within an historical framework.

Prerequisites: 48.101 and Junior standing

48.406 Psychology Seminar

3 semester hours

Provides for an advanced consideration of significant topics in psychology. Requires reports and discussions of current research and may be repeated with change in topic.

Prerequisites: 48.101 and consent of the instructor

48.436 Theories of Personality

Fall 3 semester hours

A critical study of theories explaining development, structure, and organization of personality. Considers personality from psychoanalytic, social, individual, self, and learning points of view.

Prerequisite: 48.101 and Junior standing (48.281 is strongly recommended)

48.439 Introduction to Clinical Psychology

Spring 3 semester hours

Surveys clinical psychology and the role of the clinical psychologist in community and hospital mental health programs, clinical assessment, and diagnosis. Examines concepts in and models of psychotherapy.

Prerequisites: 48.101, 48.335 or 48.436 or consent of the instructor

48.451 Laboratory Training in Group Processes

Spring 3 semester hours

Offers on-going experience on topics including norm-setting, leadership, problem solving, role playing, cooperation/competition, and decision making. Class size limited to 20 students.

Prerequisites: 48.101 and consent of the instructor

48.453 Organizational Psychology

Spring 3 semester hours

Describes the application of psychological theory and research to the study of industrial, business, profit and nonprofit service, military, and governmental organizations. Emphasizes the interaction of individual perceptions, group dynamics and organizational climates, and strategies to maximize the satisfaction and effectiveness of each component within and between complex organizations.

Prerequisites: 48.101, 48.251; and Junior standing

48.463 Personnel Psychology

Fall 3 semester hours

Surveys behavioral principles, techniques of investigation, recent research literature, and practice in the application of psychological knowledge relevant to a wide range of personnel management problems. Considers the impact of the EEO guidelines for personnel management in the areas of recruitment, selection, promotion, training, and performance appraisal.

Prerequisites: 48.101, 48.160 or 40.346 and Junior standing (48.321 recommended)

48.464 Advanced Experimental Design
3 semester hours

Presents an advanced consideration of the planning, conduct, and evaluation of research in the behavioral and biological sciences, employing parametric and nonparametric statistics. Emphasizes inferential statistics, design, analysis, interpretation, and computer utilization.

Prerequisites: 48.101, 48.160, 48.281, 48.282, or consent of the instructor

48.466 Independent Study in Psychology
3 semester hours

Provides for the study of a topic via review and research of technical psychological literature or empirical manipulation of variables in the field or laboratory under supervision of a psychology faculty member. Results

in a written report.

Prerequisites: Consent of the instructor and departmental approval

48.476 Principles of Behavior Modification
3 semester hours

Studies the application of learning principles to change behavior in both individual and group settings.

Prerequisite: 48.101 and 6 semester hours in psychology

48.497 Practicum in Psychology
1-15 semester hours

Provides application of psychological knowledge through study, observation, and practice in a community setting. May be repeated for a total of 15 semester hours.

Prerequisite: Consent of the instructor

Faculty Credentials

EILEEN C. ASTOR-STETSON

A.B., Douglass College-Rutgers University; Ph.D., Vanderbilt University

JOHN S. BAIRD JR.

B.A., University of Virginia; M.S., Ph.D., North Carolina State University

BRETT L. BECK

A.A., James H. Faulkner State Junior College; B.A., University of West Florida; Ph.D., University of Alabama

KAMBONE CAMARA

B.S., Florida A & M University; M.S., University of Wisconsin-Stout

DONALD A. CAMPLESE

A.B., West Liberty College; M.A., Ed.D., West Virginia University

WINONA J. COCHRAN

A.S., Dalton Junior College; B.S. University of Tennessee; M.S., Ph.D., University of Georgia

STEVEN L. COHEN

B.A., Oakland University; Ph.D., University of Maine

JAMES H. DALTON JR.

B.A., King College; M.A., Ph.D., The University of Connecticut

MICHAEL W. GAYNOR

B.A., Muhlenburg College; M.S., Lehigh University; Ph.D., Colorado State University

JULIE M. KONTOS

B.A., M.S., University of Georgia

L. RICHARD LARCOM

B.S., M.A., Ph.D., The Ohio State University

ALEX J. POPLAWSKY

B.S., University of Scranton; M.S., Ph.D., Ohio University

CONSTANCE J. SCHICK

B.B.A., Angelo State University; Ph.D., Texas Tech University

JOSEPH G. TLOCZYSNKI

B.A., Bloomsburg State College; M.A., West Chester University

JOHN E. WAGGONER

B.A., Shippensburg State College; M.S., Ph.D., The Pennsylvania State University

J. CALVIN WALKER

B.A., Muskingum College; Ed.M., Ed.D., Temple University

Radiological Technology

School of Health Sciences, College of Professional Studies

Program Coordinator

James E. Cole, professor, Department of Biological and Allied Health Sciences

Degree Program

Bachelor of Science

Goals and Objectives

The programs in allied health sciences encompass health areas in which individuals support, aid, and increase the efficiency and effectiveness of other health professionals by becoming a contributing member of a health care team. These programs combine natural science and liberal arts education with clinical instruction. In general, students who complete any of the programs enter their professions immediately. Others may select postgraduate education in health care. Central to most allied health programs, especially the clinical portion, is satisfactory completion of the clinical standards, often referred to as the *Essentials*. These standards establish requirements related to curriculum, personnel, financing, resources, and records.

Program of Study

Radiological technologists are allied health professionals who have expertise in the operation of X-ray equipment and the preparation of patients for various diagnostic procedures. Recent trends indicate that many clinically educated technologists pursue managerial or teaching roles within their disciplines. In order to meet the varying needs of radiological technologists, the program offers a means of entering Bloomsburg at an *advanced entry level*. Students select a group of courses comprising either a management emphasis or an education emphasis.

Students entering at this advanced level are awarded 30 to 60 semester hours for satisfactory completion of an AMA-approved program and the passing of the ARRT examination. It is assumed that most advanced level students will be part time and will require more than two years to complete the program. At least 64 semester hours must be taken at a four-year college or university (32 semester hours must be from Bloomsburg University). The required third and fourth year courses comprise an allied health core similar to that taken by other allied health majors. Assistance in choosing the proper courses is given by the program coordinator for allied health sciences.

Professional Courses

Biological and Allied Health Sciences 50.173, 50.174; Chemistry 52.101; Physics 54.107; Psychology 48.101, 48.160 or Mathematics 53.141; Computer Science 56.110 or Computer and Information Systems 92.150; 4 semester hours required elective in biology.

Emphasis Courses

Select an emphasis in either management or education, both require 15 semester hours: *Management Emphasis*—General Business 90.101, Accounting 91.220; Computer and Information Systems 92.150; Management 93.344, 93.345, 93.346 or 93.445 or 50.282 (Special Topics, Allied Health); *Education Emphasis*—Educational Foundations 60.204, 60.251, 60.291, 60.311, 60.393.

Elective Courses

Recommended electives include: Sociology 46.390, Psychology 48.311, Management 93.345.

Department of Sociology and Social Welfare

College of Arts and Sciences

Chairperson

Leo G. Barrile

Associate Professors

I. Sue Jackson

Charles W. Laudermilch

Professor

Leo G. Barrile

Assistant Professor

Dale L. Sultzbaugh

Degree Program

Bachelor of Arts in Social Welfare

A total of 46 to 54 semester hours is required for a major in social welfare.

Goals and Objectives

The Department of Sociology and Social Welfare offers a baccalaureate degree in social welfare which is accredited by the Council on Social Work Education. The primary program objective is to prepare students for the beginning level of professional social work practice with individuals, families, groups, organizations, and communities. The curriculum integrates basic social work knowledge with a liberal arts perspective.

Required Courses

Required courses for this degree program include: Social Welfare 45.133, 45.297, 45.334, 45.450, 45.452, 45.453, 45.497, 45.498, 45.211, 45.215, 45.260, 45.462, and 45.466; Biological and Allied Health Sciences 50.101; Economics 40.211; Political Science 44.120; Psychology 48.101 and 48.210, plus one additional three credit course in psychology.

For information about admission criteria and details on the course sequence, please see Associate Professor Dale L. Sultzbaugh, director of the social welfare program.

SOCIAL WELFARE
(Code 45)

45.133 Introduction to Social Work and Social Welfare

3 semester hours

Provides an orientation to the profession of social work and the field of social welfare. Includes an examination of historical and current social work processes, values, and practices in various settings and with special population groups.

45.236 Child Welfare

3 semester hours

Examines child welfare services, issues, and the institutions which affect the social functioning of children. This course is not in the social welfare degree program.

45.297 Introductory Practice Experience in Social Welfare

3-6 semester hours

Exploratory practice experience for students considering a social welfare major. Provides an overview of the agency system under the direction of a practice supervisor.

Prerequisite: 45.133

45.334 Socials Work Practice With Individuals and Families

Fall

3 semester hours

Examines several orientations to problem solving with individuals and families. Emphasizes the essential knowledge, values, and interviewing skills for beginning social work practice.

Prerequisites: 45.133, 45.211, 45.215, 45.297; Psychology 48.101, 48.210; Biology 50.101

45.450 Social Work Practice With Small Groups

Fall 3 semester hours

Uses problem-solving interventions in small groups integrating social work knowledge, skills, and values.

Prerequisites: 45.133, 45.211, 45.215, 45.297; Psychology 48.101, 48.210; Biology 50.101

45.451 Family Counseling

3 semester hours

Surveys major theoretical models for family assessment and intervention with primary emphasis on ecological systems. Working knowledge of rudimentary assessment and intervention skills for problem solving with families acquired. This course is not in the social welfare degree program.

45.452 Social Work Practice With Organizations and Communities

Spring 3 semester hours

Examines problem-solving interventions with large groups, communities, and organizations using the conceptual framework of social work knowledge, skills, and values.

Prerequisites: 45.133, 45.215, 45.297; Economics 40.211; Political Science 44.120

45.453 Social Welfare Policy

Spring 3 semester hours

Frameworks for analyzing social and economic policies presented with special focus on legislative, judicial, and administrative policies.

Prerequisites: 45.133, 45.215, and 45.297 (may be taken concurrently); Economics 40.211; Political Science 44.120

45.497 Social Welfare Internship

10-15 semester hours

Provides the social welfare major with the opportunity to integrate and apply knowledge, theory, and understanding extracted from the foundation courses. Fosters skill development and evaluates the demonstration of beginning competencies in working with individuals, families, groups, organizations, and communities. 45.466 Social Research may be taken concurrently.

Prerequisites: 45.133, 45.297, 45.334, 45.450, 45.452, 45.215, 45.260; Economics 40.211; Political Science 44.120; Psychology 48.210

45.498 Integrative Methods Seminar in Social Work and Social Welfare

3 semester hours

An examination of social work practice from a system theory perspective and its functional relevance to contemporary social problems. Internship and other practice experiences are critical elements in this review course. Course is taken concurrently with or after the social welfare internship.

Prerequisites: 45.133, 45.215, 45.260, 45.297, 45.334, 45.450, 45.452, 45.453, and 45.466 and 45.497 (both may be taken concurrently); Economics 40.211; Political Science 44.120; Psychology 48.210

Faculty Credentials

LEO G. BARRILE

B.A., M.A., Ph.D., Boston College

I. SUE JACKSON

A.B., Lycoming College; M.S.S.W., Graduate School of Social Work, University of Texas

CHARLES W. LAUDERMILCH

B.A., Moravian College; M.S.W., Wayne State University

DALE L. SULTZBAUGH

B.A., Gettysburg College; M.Div., Lutheran Theological Seminary; M.S.W., West Virginia University

Department of Sociology and Social Welfare

College of Arts and Sciences

Chairperson

Leo G. Barrile

Chang Shub Roh

Anne K. Wilson

Professors

Leo G. Barrile

James H. Huber

Frank G. Lindendorf

Associate Professors

Christopher F. Armstrong

Thomas A. Bono

David E. Greenwald

Degree Program

Bachelor of Arts in Sociology or Sociology/Criminal Justice

A total of 42 semester hours is required for a major in sociology.

Goals and Objectives

Designed to give students a firm liberal arts education in sociology, this program exposes students to the theoretical concepts and research methods of the field, introduces them to computer data analysis, and prepares them for graduate study. The program provides students the opportunity to explore the causes of social problems with respect to race, class, gender, crime, the political economy, age, health, work, punishment, victimization, and deviance. Students are encouraged to think critically about the structure and dynamics of social groups, institutions, ideology, and the society.

Required Courses

The following courses (12 semester hours) are required for this major: Sociology 45.211, 45.260, 45.462, and 45.466. Students also must select 10 additional courses, 30 semester hours, from Code 45 courses; five of these must be drawn from 300 and 400 level courses. The sociology internship and social work courses may not be counted as part of these 10 courses.

Option in Criminal Justice

Students who wish to channel their education in sociology toward a career in criminal justice may choose an option in that field of study. Through the sociology/criminal justice sequence, students are exposed to justice, enforcement, and corrections systems, and investigation and victim's services. A total of 45 semester hours is required for this option; this includes the four core courses (Sociology 45.211, 45.260, 45.462, 45.466) stipulated for the major in sociology. Required courses are: 45.211, 45.242, 45.244 or Political Science 44.244, 45.260, 45.341, 45.342, 45.343, 45.462, 45.466, 45.496, and three of the following courses: 45.133, 45.334, 45.215, 45.213, 45.443, 45.216. The Sociology Internship Program (45.496) accounts for 1 to 15 semester hours.

**SOCIOLOGY and SOCIAL
WELFARE
(Code 45)**

45.211 Principles of Sociology

3 semester hours

Introduces the basic concepts, theories, and perspectives in sociology. Sociology is the scientific study of the influence of groups,

institutions, and cultures upon individuals. For example, the extent to which race, gender, class, religion, and education affect the behavior and opportunities of individuals is probed.

45.213 Contemporary Social Problems

3 semester hours

Examines social issues such as plant closings

and unemployment, the impact of multinational corporations on the economy and the environment, mobility, aging, family problems – sex roles, abuse, incest, divorce, alcohol and drug abuse, social change and disorganization, racism, sexism, employment discrimination, crime, alienation, and poverty.

45.215 Racial and National Minority Groups

3 semester hours

Presents a sociological examination of some of the major racial, ethnic, and religious minorities and their divergent heritages in the contemporary American scene.

Prerequisite: 45.211

45.216 Urban Sociology

3 semester hours

Presents a sociological analysis of origin and growth of cities with an emphasis on the dynamic patterns of social interaction in the changing contemporary urban scene. Views cities mainly from a multinational perspective with a special focus on urban regions.

Prerequisite: 45.211

45.217 Sociology of Sport

3 semester hours

An introduction to and critical examination of the role of sports in society. Focuses on the reciprocal impact of sports and various institutions of society. Students examine the sociological perspective on sports as a human activity.

45.219 Religion and Society

3 semester hours

Examines religion as a means by which people, as members of communities, order their lives and endow them with meaning. Topics include ritual and belief systems, the social organization of religion, and the relationship between religion and other parts of the social structure.

45.231 Marriage and Family

3 semester hours

Provides a sociological examination of the

traditional and changing institutions of marriage and the family in contemporary society. Focuses on family and marital interaction, roles, and interpersonal familial relations.

45.242 Juvenile Delinquency

3 semester hours

Examines social pressures operative upon children in American society, which leads to formation of delinquent personality. Consideration of treatment and prevention, juvenile courts, clinics and correctional institutions, evaluation of theories, concepts, and relevant empirical research.

45.244 Introduction to Criminal Justice

3 semester hours

Offers a comprehensive survey and basic understanding of the role and function of the criminal justice field. Attention is given to crime and criminal law, law enforcement and the police, courts, corrections, and juvenile justice.

45.260 Basic Social Statistics

3 semester hours

Presents principles and techniques of statistical analysis used by sociologists and others in social sciences: descriptive tables and graphs, measures of dispersion, significance tests, correlation, and regression. Students collect and analyze data using computers. Emphasis on understanding concepts underlying statistical analysis in order to permit intelligent use and interpretation of statistics.

45.276 Science and Society

3 semester hours

Explores science as the organized activities of an occupational community. Examines the development of science as an institution, its social organization in modern society, and its internal and external politics.

Prerequisite: 45.211 or consent of instructor

45.318 Social Stratification

3 semester hours

Examines the role of social class in terms of structure, function, and persistence in any

society. Examines classical theoretical statements and evaluates current American class relations in terms of status, power, authority, and social mobility. Covers notable studies of the American class system and provides a close look at power relations and styles of life among the various American classes.

Prerequisite: 45.211

45.341 Criminology

Fall

3 semester hours

Discusses the major sociological theories of crime and justice. Presents the scope of crime in the United States and other countries. Probes each major type of crime, namely, homicide, rape, white-collar crime, political crime, organized crime, property crimes, drug crimes, prostitution, and pornography. Describes and analyzes law enforcement system.

Prerequisite: 45.211

45.342 Penology

Spring

3 semester hours

Penology studies the social rationales, methods, and consequences of punishing and rehabilitating law breakers. Includes a social history of prisons, jails, and punishment, the interpersonal dynamics within the institution, the inmate social order, causes of riots, treatment programs, and alternative models and policies.

Prerequisite: 45.211

45.343 Victimology

Spring

3 semester hours

Examines the short-term and long-term effects of victimization on individuals and groups from such crimes as family violence, rape, street crime, business fraud, corporate negligence, and political wrong doings.

Prerequisite: 45.211

45.345 Medical Sociology

3 semester hours

Facilitates student's ability to understand, analyze, and evaluate sociological factors in relation to illness, medical behavior, and health care systems.

Prerequisite: 45.211 or consent of instructor

45.400 Sociology of Mass Communication

3 semester hours

An in-depth discussion of the cognitive and behavioral affects of mass media, especially television on audiences, the social structure of the communications industry, particularly its influence on media content, and the political use of mass media. Students critique latest research articles in the field.

Prerequisite: 45.211 and Junior status

45.441 Social Indicators

3 semester hours

Attempts to reinforce and extend earlier learning in research techniques and methods by focusing upon systematic, step-by-step understanding, analysis, and preparation of social indicators at the federal, state, and local levels of social policy planning. Promotes understanding of social indicators and the use of these indicators within all levels of society.

45.443 Sociology of Deviant Behavior

Fall

3 semester hours

Evaluates the presence and function of deviance in society. Includes mental illness and various types of crime and stigmatized behavior. Examines how it is handled therapeutically and legally through institutionalization and treatment. Attempts to provide a broad theoretical perspective as well as concrete examples of deviance in any society. Examines current methods of rehabilitation and punishment.

Prerequisite: 45.211

45.457 Sociology of Community

3 semester hours

Reviews and examines theories and research of communities. Gives special emphasis to the American community.

Prerequisite: 45.211

45.461 Social Problems in Rural-Urban Communities

3 semester hours

Focuses on social problems peculiar to and characteristic of rural and small urban com-

munities. An eclectic theoretical interpretation will be made of the major social problems. Emphasizes problems which result in the dysfunctioning of patterned social relationships.

45.462 Sociological Theory

3 semester hours

Examines classical forms of social theory from the 19th century and their impact on the development of theory in the 20th century. Studies the views of Max Weber, Emile Durkheim, and Karl Marx on the social structure, social organization, economy, and human condition as well as their influence on contemporary perspectives, namely, the conflict and functional approaches, sociology of knowledge, phenomenological sociology, and symbolic interactionism.

Prerequisite: 45.211

45.465 Computer Applications in the Social Sciences

Spring

3 semester hours

Introduces computer use for the social sciences (through the use of SPSS). Emphasizes translating questions into data analysis and interpretation of statistical results.

Prerequisites: 45.260, 45.466, or consent of the instructor

45.466 Social Research

3 semester hours

Stresses design and construction of major research methods and procedures used in social research. Special emphasis on survey research.

Prerequisites: 45.211, 45.260 or consent of the instructor

45.467 Populations Problems

3 semester hours

Studies human population, its major theories, distributions, composition, characteristics, changes, and future developments of population and impacts of population problems on society as influenced by vital processes.

Prerequisite: 45.211

45.468 Social Service Planning

3 semester hours

Provides an advanced consideration of the social context and the development of social policy and planning. Stresses the implementation of social and/or human services at federal, state, and local levels of organization. A critical analysis of the effects of social policy, planning, and services on people in a service-oriented, post-industrial society.

Prerequisites: 45.211 and consent of the instructor

45.470 Senior Seminar

3 semester hours

Provides for individual research projects and reports with-in selected areas of interest such as the family, criminology, social services, and special populations. Usually offered in the spring semester.

Prerequisites: Senior status; 18 semester hours of sociology and social work; and consent of the instructor

45.471 Independent Study in Sociology

3 semester hours

Allows student to pursue individualized instruction in-depth with a faculty member in a specific area of the field not covered in current courses. See subsection on *Independent Study*.

Prerequisites: 45.211 and consent of instructor, chairperson, and members of the department.

45.474 Contemporary Environmental Issues

3 semester hours

Examines some major human problems that lead to environmental deterioration, particularly water, air, and noise pollution, energy and other resource depletion, and increasing population density.

Prerequisite: 45.211

45.477 Community Land Use Planning

3 semester hours

Introduces the community planning process and the theoretical perspectives relevant to

community land use planning. Examines selected substantive planning problem areas in the local community. Students formulate, develop, and present a community land use plan.

Prerequisite: 45.211

45.478 Sociology of Work

3 semester hours

Presents a sociological examination of work and the milieu of the worker. Studies formal and informal work organizations, job satisfaction and dissatisfaction, structure and organization of industrial and post-industrial societies, and relationship between work organizations within communities and society.

Prerequisite: 45.211

45.490 Sociology of Aging

3 semester hours

Studies aging, its major theoretical themes, patterns of living, socio-psychological, and cultural consequences. Examines the contemporary issues, problems, and programs of the aging.

Prerequisite: 45.211 or consent of the instructor

45.496 Sociology Internship Program

1-15 semester hours

Designed primarily for the junior or senior working in a specific institutional field and/or college-approved, off-campus activities related to student's chosen professional field.

Prerequisites: Consent of the instructor and department chairperson

Faculty Credentials

CHRISTOPHER F. ARMSTRONG

B.A., Washington and Lee University; M.A., Ph.D., University of Pennsylvania

LEO G. BARRILE

B.A., M.A., Ph.D., Boston College

THOMAS A. BONOMO

B.A., Muskingum College; M.A., Ph.D., Wayne State University

DAVID E. GREENWALD

B.A., University of Pennsylvania; M.A., Ph.D., University of California at Berkeley

JAMES H. HUBER

B.S., Bloomsburg State College; M.A., University of Delaware; Ph.D., The Pennsylvania State University

FRANK G. LINDENFELD

B.A., Cornell University; M.A., Ph.D., Columbia University

CHANG SHUB ROH

B.A., Dong-A University; C.S.W., M.S.W., Ph.D., Louisiana State University

ANNE K. WILSON

B.A., Carleton College; M.S., University of Maryland; Ph.D., The Johns Hopkins University

Department of Communication Disorders and Special Education

School of Education, College of Professional Studies

Chairperson

Andrew J. Karpinski

Associate Professors

Ann L. Lee

Joseph M. Youshock

Professors

Mary B. Hill

Kenneth P. Hunt

Andrew J. Karpinski

Colleen J. Marks

John M. McLaughlin Jr.

Carroll J. Redfern

Assistant Professor

Sheila D. Jones

Degree Program

Bachelor of Science in Education—Special Education

A total of 51 semester hours is required for a major in special education.

Goals and Objectives

The program in special education offers certification for teachers of the mentally retarded and/or physically handicapped individuals; an area of concentration for the education of students in hearing impaired; and the courses and experiences which support these curricula.

Students enrolled in special education have the opportunity of participating in practica in supervised and graded special classes. Students participate in student teaching at the Selinsgrove Center and public schools in Columbia, Lackawanna, Luzerne, Lycoming, Montour, Northampton, Northumberland, Snyder, Sullivan, and Centre Counties.

Recommended General Education Courses

Core courses designated by the departments as applicable to the General Education requirements may be elected in partial fulfillment of that requirement.

Required Courses

The following courses are required for teaching mentally and/or physically handicapped individuals: English 20.101, 20.104, 20.200 or 20.201; Speech Communication 25.103 or 25.104; Psychology 48.101, 48.210; Biological and Allied Health Sciences 50.101; Mathematics 53.141 or Psychology 48.160.

Professional Education Courses

Courses in professional education include: Health, Physical Education, and Athletics 05.321; Educational Foundations 60.251, 60.393; Early Childhood and Elementary Education 62.302 or 62.432, 62.371, 62.398, 62.373 or Educational Foundations 60.375 or Secondary Education 65.374.

Special Education Courses

Special Education courses include: Special Education 70.101, 70.200, 70.202, 70.23 (this course is not required for the hearing impaired program), 70.250, 70.251, 70.253, 70.353, 70.357, 70.401, 70.432, 70.450, 70.451, and 70.461.

Students entering the university who have declared special education as their major are

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advised by faculty in the Department of Communication Disorders and Special Education. They begin taking courses in the major in the first semester of the freshman year and generally enroll in at least one special education course every semester thereafter. A typical schedule of courses is as follows:

FRESHMAN YEAR

Fall Semester

70.101 Introduction to Exceptional Individuals
General Education

Spring Semester

70.200 Introduction to the Mentally/Physically
Handicapped Individual
70.231 Language I
60.251 Psychological Foundations of Education
General Education

SOPHOMORE YEAR

Fall Semester

70.250 Behavior Disorders
70.202 Technology for Exceptionalities
General Education

Spring Semester

70.251 Learning Disabilities
70.253 Methods and Materials for Teachers of
the Low Functioning Mentally Retarded
General Education

JUNIOR YEAR

Fall Semester

70.357 Prevocational and Vocational
Education for the Handicapped
60.393 Social Foundations of Education
62.398 Teaching of Mathematics in the
Elementary School
62.302 Teaching of Science in Elementary
School Science
or
62.432 Social Studies Experiences for Young
Children
General Education

Spring Semester

70.432 Languages II
70.450 Methods for Elementary Special
Education
62.371 Teaching Reading in the Elementary
School
General Education

SENIOR YEAR

Fall Semester

70.451 Methods for Secondary Special Education
70.353 Assessment and Planning
Reading course
General Education

Spring Semester

70.401 Student Teaching With Exceptional
Individuals
70.461 Problems in Special Education

Adjustments are made in the above schedule of courses which reflect the needs of students who desire to take less or more semester hours of work than the average student. Transfers (internal and external), readmitted students, adult learners, and part-time students make it necessary to make adjustments in scheduling. Students who have the necessary requirements complete their student teaching the first semester and return to campus to complete their General Education requirements for graduation. Students who enroll in summer school could possibly graduate early or reduce the number of semester hours taken during the academic year. Students seeking dual certification (Special Education/Elementary Education or Early Childhood Education) often enroll in summer sessions.

Elective Courses

A total of 15 semester hours is taken in elective courses for this major. These courses include: 70.255, 70.256, 70.375; Speech Pathology and Audiology 72.152; Studies in Hearing Loss 74.153.

Area of Concentration in Education of the Hearing Impaired

The undergraduate curriculum in education of the hearing impaired lays the foundation for the training and education needed to prepare classroom teachers and itinerant hearing therapists to work in educational settings with hearing impaired children and adults. Individuals seeking certification to teach in educational programs for the hearing impaired are first required to major in early childhood, elementary, secondary or special education or speech pathology/audiology. Students supplement the curriculum for their majors with an area of concentration in education of the hearing impaired that requires a minimum of 18 semester hours. All special education students take general education courses, professional education courses, and courses in special education concurrently throughout the program with the concentration in education of the hearing impaired.

Certification to teach hearing impaired students in school programs is granted by the Pennsylvania Department of Education upon completion of a related graduate program. Admission to the master's degree program in this field at Bloomsburg University is very competitive.

Required Courses*Freshman Year*

- 72.152 Introduction to Communication Disorders
- 74.201 History, Education, and Guidance of the Hearing Impaired

Sophomore Year

- 72.200 Introduction to Audiology
- 72.300 Auditory Training and Speech Reading

Junior Year

- 74.205 Introduction to Instructional Methods for the Hearing Impaired
- 74.251 Phonetics

Elective Courses

A total of 24 semester hours is taken in elective courses. Courses include: 74.153, 74.154, 74.155, 74.254, 74.255, 74.256, 74.469, and 74.490.

Note: Undergraduate students who anticipate applying for admission to the university's master's degree program in education of the hearing impaired are strongly urged to select 74.153, 74.469, and 74.490 as elective courses.

**SPECIAL EDUCATION
(Code 70)**
70.101 Introduction to the Exceptional Individual**3 semester hours**

Reviews all major areas of exceptionality (visually impaired, mentally retarded, hear-

ing impaired, communication disorders, behavior disorders, learning disabilities) and acquaints the student with social, sociological, psychological, medical, historical, legal, economic, and professional aspects of these conditions. Reviews current research and the latest techniques for facilitating meaningful interactions with these individuals.

70.200 Introduction to the Mentally and Physically Handicapped

3 semester hours

An orientation to the nature of mental and physical handicaps; concerned with etiology and types and with the behavioral and learning characteristics involved. Exposes students to an historical survey of mental retardation, research in mental retardation, community and state responsibility in relation to the mentally and physically handicapped, prevention and treatment, educational and recreational avenues for the mentally and physically handicapped, and facets of the relationship and reactions of the individual and parent.

70.202 Technology for Exceptionalities

3 semester hours

Provides the special education major with an introduction to technology as it is being applied to meet the needs of exceptional individuals and special education teachers. Computers, as well as other technological devices, are studied in relation to use as prosthetics, instructional tools, administrative tools (particularly Individualized Education Program generation and data management), and environmental interfaces.

70.231 Language I

3 semester hours

Aids the teacher in developing understanding of listening and speech processes, developmental and defective. Includes introduction to anatomy and physiology of speech and hearing mechanisms, developmental stages of language acquisition, etiological factors related to receptive and expressive deficits, and techniques for developing listening and speaking skills by the teacher.

70.250 Behavior Disorders

3 semester hours

Deals with inappropriate behaviors emitted by children and youth and the techniques and strategies that may be used to modify these behaviors. Covers psychological disorders, research related to aggressive and with-

drawn behavior, and techniques and materials used in social curriculum. Examines group and individual problems at all school levels.

70.251 Learning Disabilities

3 semester hours

Presents its content in three units, a general overview, the central nervous system, and specific learning disabilities. Includes general characteristics of learning problems, their causes or related factors, the medical model, and specific language disorders and remediation.

70.253 Methods and Materials for Teachers of the Low Functioning Mentally Retarded

3 semester hours

Provides supervised student contact with low functioning mentally retarded and multi-handicapped individuals (LFMR). The student designs and implements educational experiences for LFMR and builds and uses materials suitable to the abilities of the individuals with whom they work. Exposes methods and materials appropriate to this segment of the mentally retarded population. Course conducted at the Selinsgrove Center. Prerequisite: 70.200

70.255 Experience With Exceptional Individuals

3 semester hours

Presents clinical or field experience working individually or in small groups with exceptional individuals in various settings. Prerequisites: Junior or Senior standing and consent of the instructor

70.256 The Gifted Child

3 semester hours

Familiarizes students with physical, mental, emotional, and social characteristics of the mentally gifted and with types of organization, teaching procedures, and curricular material used in the education of the mentally gifted. Explores family relationships relevant to education of gifted individuals.

70.353 Assessment and Planning

3 semester hours

Provides information and experience with formal and informal assessment devices and procedures, their usages and appropriateness. Covers gathering information about the learner prior to instruction concerning appropriate instructional tasks, sensory channels, interest areas, and social skills. Covers ways of developing informal assessments, gathering observational information, storing information, and planning for instruction. Prerequisite: Junior or Senior standing

70.357 Prevocational and Vocational Education for the Handicapped

3 semester hours

Develops a philosophy of vocational education for the mentally and/or physically handicapped, knowledge of programs and strategies to develop their prevocational and vocational skills, materials and assessment procedures appropriate for those students and programs.

Prerequisite: Junior or Senior standing

70.375 Individual Project

3 semester hours

Project is planned according to interests and needs of the individual student, in any of the following suggested areas: library research, curriculum study, internship in special aspects of educational programs.

Prerequisite: Open only to Juniors and Seniors with staff approval

70.401 Student Teaching With Exceptional Individuals

12 semester hours

Provides opportunities for the student to test educational theory by putting it into practice, opportunities to raise questions, problems and issues which may lead to advanced study, and opportunities for effective functioning in a pupil-teacher relationship in an actual classroom setting.

Prerequisite: Concurrent with 70.461

70.432 Language II

3 semester hours

Aids the student in preparing to teach exceptional individuals basic and refined written language skills. Includes methods and materials for teaching penmanship, spelling, syntactical structure, and reading.

Prerequisite: Junior or Senior standing

70.450 Methods for Elementary Special Education

3 semester hours

Presents fundamental principles for, and a variety of teaching techniques applicable to the range of elementary levels of special education. Organization of programs, curricular approaches, and materials for the special education teacher.

Prerequisite: Junior or Senior standing

70.451 Methods for Secondary Special Education

3 semester hours

Presents a student-centered workshop approach in analysis of methods, research, and philosophies currently in use in the teaching of special education students. Provides practice in the use of various teaching aids and machines related to student projects in secondary special classes.

Prerequisite: Junior or Senior standing

70.455 Learning Disabilities

3 semester hours

A study of the characteristics and symptoms of specific learning disorders. Introduces diagnostic and educational procedures used with learning disorders. Emphasizes perceptual and conceptual factors in the development of language skills. For individuals who have not had a course in learning disabilities.

70.461 Problems in Special Education

3 semester hours

Presents instruction in the development of constructive teaching of exceptional individuals. Focuses on problems in the education of exceptional children. Discusses its relationship to teaching as each problem is

defined. Helps the future teacher meet practical problems in guiding the exceptional individual in learning experiences at school. Prerequisite: Concurrent with 70.401

70.490 Special Workshop

/70.491/70.492 3 semester hours

Utilizes temporary special workshop seminars designed to focus on contemporary trends and problems in the field of special education lectures, resource speakers, team teaching, field experiences, practicum, news media, and related techniques.

Faculty Credentials

MARY B. HILL

B.S., Bloomsburg State College; M.Ed., University of Delaware; Ph.D., Temple University

KENNETH P. HUNT

B.S., M.Ed., State University of New York at Buffalo; Ph.D., University of Pittsburgh

ANDREW J. KARPINSKI

B.S., M.Ed., D.Ed., The Pennsylvania State University

SHEILA D. JONES

B.S., M.Ed., Bloomsburg University; Ed.D., University of Missouri

ANN L. LEE

B.S., M.Ed., Bloomsburg State College; Ed.D., Indiana University of Pa.

COLLEEN J. MARKS

B.A., Edinboro State College; M.A., University of Illinois; Ed.D., Lehigh University

JOHN M. MCLAUGHLIN JR.

B.S., Lock Haven State College; M.Ed., D.Ed., The Pennsylvania State University

CARROLL J. REDFERN

B.S., Johnson C. Smith University; M.Ed., Bloomsburg State College; Ed.D., Lehigh University

JOSEPH M. YOUSHOCK

B.S., M.Ed., Bloomsburg University; Ed.D., Temple University

Department of Communication Studies

College of Arts and Sciences

Chairperson

Mary Kenny Badami

Professor

Mary Kenny Badami

Associate Professors

Howard N. Schreier

Harry C. Strine III

James E. Tomlinson

Assistant Professors

Dale A. Bertelsen

Janet Reynolds Bodenman

Stuart M. Schrader

Kara Shultz

Janice M. Youse

Degree Program

Bachelor of Arts in Speech Communication

A total of 30 semester hours is required for a major in speech communication.

Bachelor of Science in Education with Communication Certification

Requirements for the bachelor of science in education are found in the section on *Secondary Education*. This degree program offers a communication certification with a speech, theater or nonprint media option. Students in this degree program have an adviser in both the Department of Curriculum and Foundations and the Department of Communication Studies.

Goals and Objectives

This department includes both speech communication and theater divisions. The speech communication division supports general education for the entire university with courses in public speaking, interpersonal communication, and intercultural communication.

Students who major in speech communication learn written and oral communication skills for use in a variety of settings. Those who expect to work in one-to-one and small group situations in business typically choose the specialization in interpersonal and organizational communication, while those who expect to deliver speeches and write for publication typically choose the specialization in public communication. The major has proved to be good career training for students who enter many fields of business, especially in jobs such as public relations, tour guide/public hospitality, personnel and training, fund raising, management, and sales. It is also excellent preparation for those who pursue graduate and professional study in order to enter such fields as teaching, law, politics, and ministry.

Required General Education Course

Public Speaking (25.103) is a required General Education course for students in this degree program.

Required Courses

Three courses, which total 9 semester hours, are required for the major. These include: 25.104 Interpersonal Communication, 25.215 Communication Theory, and 25.315 Persuasion.

Options

Students may choose an option in either interpersonal and organizational communication or in public communication — both options require 21 semester hours of coursework.

Interpersonal and Organizational Communication

The option in interpersonal and organizational communication requires three courses in basic theory and performance, three courses in advanced theory, plus 25.445 Organizational Communication.

Basic theory and performance courses — 9 semester hours

Select a minimum of 3 courses from: 25.206, 25.218, 25.220, 25.307, 25.321, and 25.241.

Advanced theory courses — 9 semester hours

Select a minimum of 3 courses from 25.492, 25.493, 25.494, 25.495, and 27.332.

Public Communication

The option in public communication requires one course in vocal skills, two courses in basic theory and performance, three courses in advanced theory, plus 25.205 Rhetorical Theory.

Vocal skills — 3 semester hours

Select one course from 25.206 or 25.241.

Basic theory and performance — 6 semester hours

Select a minimum of two courses from 25.218, 25.220, 25.307, and 25.321.

Advanced theory — 9 semester hours

Select a minimum of three courses from 25.492, 25.493, 25.494, and 25.495.

Forensic Society

Students in the forensics program debate current topics, develop original speeches, and present readings at intercollegiate competitions. Team members compete locally, regionally, and nationally, and they help to organize tournaments sponsored by Bloomsburg University. Participants may earn up to one credit per year by taking 25.108 Forensics Practicum. Students from all majors are welcome to join the forensics team to improve their self-confidence, competence in research, knowledge of current events, appreciation of literature, and public presentation skills.

SPEECH COMMUNICATION (Code 25)

25.103 Public Speaking

3 semester hours

A basic course in speech with emphasis on formal speaking and audience reaction.

25.104 Interpersonal Communication

3 semester hours

Analyzes one-to-one communication for developing and changing behaviors during interpersonal speech communication.

25.108 Forensic Practicum

1 semester hour

Participation in forensics: debate or individ-

ual speaking events. Grades are awarded each semester. May be repeated for maximum of 3 semester hours of credit. First semester register for 25.108.01. Second semester register for 25.108.02. Participation for two semesters for one semester hour of credit.

25.205 Rhetorical Theory

Fall

3 semester hours

Highlights major trends in rhetoric from the sophists to contemporary rhetorical theorists.

25.206 Oral Interpretation of Literature

3 semester hours

Provides practice in skills necessary for conveying intellectual and emotional meanings in poetry and prose read to an audience.

25.215 Communication Theory

Spring 3 semester hours

Introduces definitions and models of communication as a social science; surveys methods for the scientific study of communication; described recent developments in theories of interpersonal, small group, public, and mass communication.

25.218 Discussion

3 semester hours

Presents a survey of and practice in types and patterns of public discussion.

Prerequisite: 25.103 or 25.104 or consent of the instructor

25.220 Intercultural Communication

Spring 3 semester hours

Provides an overview of speech communication as it relates to socio-cultural differences that reflect ethnic and racial experiences, knowledge, and values.

Prerequisite: 25.103 or 25.104 or consent of the instructor

25.241 Voice and Diction

3 semester hours

Studies the international phonetic alphabet and the causes of vocal problems.

25.307 Business and Professional Speech

3 semester hours

Studies business and professional communication, salesmanship (selling skills and methods), conference, and interviewing.

Prerequisite: 25.103 or 25.104

25.315 Persuasion

/25.421 3 semester hours

Examines the way people use symbols to influence other people. Provides practice in presenting and evaluating persuasive messages.

Prerequisite: 25.103 or 25.104

25.321 Argumentation

Spring 3 semester hours

Examines basic principles of argument and evidence. Provides practice through presen-

tation and refutation of arguments in debates on controversial issues.

Prerequisite: 25.103 or 25.104

25.445 Organizational Communication

3 semester hours

Explores the theoretical and the practical aspects of how communication patterns develop in organizations. Open to undergraduate and graduate students.

25.470 Independent Study

1-3 semester hours

Provides for individual work and study in one of the areas of rhetoric and communication. Student finds faculty sponsor, prepares written proposal that requires departmental recommendation and the dean's approval arranged through the chairperson. See subsection of catalog on *Independent Study*.

25.492 Special Topics in Communication

/25.493/25.494/25.495

3 semester hours

Investigates significant aspects of speech communication. Topics vary by semester and include: Intercultural Communication, Communication and the Sexes, Conflict and Communication, Communication Training in Organizations, Theories and Techniques of Interviewing, Nonverbal Communication, Political Communication, Rhetoric in a Mediated Society, Cultural Foundations of the Information Society, and Media Criticism. Consult the schedule booklet or the listed instructor for further information.

Prerequisite: 9 semester hours in speech communication courses

Faculty Credentials

MARY KENNY BADAMI

B.S., Fordham University School of Education;
M.A., Hunter College; Ph.D., Northwestern University

DALE A. BERTELSEN

B.S., Rider College; M.A., Ph.D., The Pennsylvania State University

JANET REYNOLDS BODENMAN

B.A., Willamette University; M.A., The Pennsylvania State University

STUART M. SCHRADER

B.A., Humboldt State University; M.A., Western Kentucky University

HOWARD N. SCHREIER

B.A., Brooklyn College; M.A., University of Georgia; Ph.D., Temple University

KARA SHULTZ

B.S., M.A., University of Northern Colorado

HARRY C. STRINE, III

B.A., Susquehanna University; M.A., Ohio University

JAMES E. TOMLINSON

B.A., M.A., California State University at Long Beach

JANICE M. YOUSE

B.S., M.A., Temple University

Department of Communication Disorders and Special Education

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Associate Professors

Dianne H. Angelo

Richard M. Angelo, clinical director

Professors

Ronald R. Champoux

Robert J. Kruse

G. Donald Miller, assistant chairperson

Assistant Professors

Robert J. Lowe

Vishakha W. Rawool

Julia M. Weitz

Degree Program

Bachelor of Science in Speech Pathology and Audiology

A total of 51 semester hours is required for a major in speech pathology and audiology.

Goals and Objectives

The preprofessional curriculum in communication disorders prepares students for admission to graduate education in speech pathology and audiology. *The department makes no recommendation for any type of certification based on the completion of the undergraduate preprofessional curriculum.* A core of required courses is prerequisite to graduate school admission and is based on the American Speech-Language-Hearing Association (ASLHA) accreditation/certification requirements.

Courses in the undergraduate preprofessional curriculum in speech pathology and audiology are open to all university students (majors and non-majors) who are interested in hearing science, speech science, normal language and communication development and/or disorders. Courses in the curriculum can be elected by students in teacher preparation (i.e., early childhood, elementary, secondary or special education or education of the hearing impaired) who want to gain competencies related to the special problems of teaching children with speech, language, and hearing impairments. The curriculum offers a general education course concerning the processes, functions, and pathologies of human communication.

The preprofessional curriculum provides the student with a broad general education background. The primary emphasis is on general education with a few introductory courses pertaining to the profession of speech pathology and audiology. No professional courses or experiences are offered at the undergraduate level (i.e., student teaching).

Admission to the graduate programs in audiology and speech pathology is competitive and limited. Graduates of the master's degree program in speech pathology and audiology are eligible for certification in speech correction granted by the Pennsylvania Department of Education, the Certificate of Clinical Competence in Audiology or Speech Pathology issued by the American Speech-Language-Hearing Association (ASLHA), and licensure in audiology or speech pathology issued by the Commonwealth of Pennsylvania.

Required Courses

The following courses in speech pathology and audiology are required: 72.162, 72.200, 72.220, 72.240, 72.300, 72.310, 72.320, 72.330, 72.340, 72.400, 72.450, and 72.460; plus the following courses which total 15 semester hours, Psychology 48.160, Biological and Allied Health Sciences 50.366, Physics 54.106, and Special Education 70.101 and 70.202.

Elective Courses

A total of 23 semester hours in general elective courses must be selected with the approval of the adviser.

Area of Concentration in Education of Hearing Impaired

The undergraduate curriculum in education of the hearing impaired lays the foundation for the training and education needed to prepare classroom teachers and itinerant hearing therapists to work in educational settings with hearing impaired children and adults. Individuals seeking certification to teach in educational programs for the hearing impaired are first required to major in early childhood, elementary, secondary or special education, or speech pathology/audiology. Students supplement the curriculum for their majors with an area of concentration in education of the hearing impaired that requires a minimum of 18 semester hours. All speech pathology/audiology students take general education courses, professional education courses, and courses in speech pathology/audiology concurrently throughout the program with the concentration in education of the hearing impaired.

Certification to teach hearing impaired students in school programs is granted by the Pennsylvania Department of Education upon completion of a related graduate program. Admission to the master's degree program in this field at Bloomsburg University is very competitive.

Required Courses

Freshman Year

- 72.152 Introduction to Communication Disorders
- 74.201 History, Education, and Guidance of the Hearing Impaired

Sophomore Year

- 72.200 Introduction to Audiology
- 72.300 Auditory Training and Speech Reading

Junior Year

- 74.205 Introduction to Instructional Methods for the Hearing Impaired
- 74.251 Phonetics

Elective Courses

The student has the option of electing up to 24 semester hours of coursework including: Studies in Hearing Loss 74.153, 74.154, 74.155, 74.254, 74.255, 74.256, 74.469, and 74.490. See the section of the catalog on Studies in Hearing Loss for Code 74 course descriptions.

SPEECH PATHOLOGY and AUDIOLOGY (Code 72)

nication disorders: basic processes, functions and problems of human communication for children and adults.

72.152 Introduction to Communication Disorders

3 semester hours

Presents an introduction to the study of human communication and communication disorders the role of professionals in commu-

72.162 Introduction to Speech Pathology 3 semester hours

An introduction to the neurophysiological bases of speech and language as fundamental to the understanding of pathologies of language and speech in depth. Research findings are explored.

72.200 Introduction to Audiology

3 semester hours

Introduces the causes, evaluation techniques and rehabilitative procedures for various types of hearing problems; related auditory, speech, psychological, and educational factors; the roles of parent, educator, and specialist in the rehabilitation program. Presents hearing conservation procedures used in schools and industry.

72.220 Phonetics

3 semester hours

Studies of the physiological, acoustical, perceptual, and descriptive aspects of speech and sound production. Primary emphasis on the description, classification, and transcription of speech sounds. Provides a base of knowledge for the diagnosis and treatment of phonetic and phonological disorders of communication.

Prerequisite: 72.162

72.240 Normal Language Acquisition

3 semester hours

Focuses on current information and theory regarding normal language acquisition.

Prerequisite: 72.162

72.300 Auditory Training and Speech Reading

3 semester hours

Presents current teaching methods for educating children and adults with moderate and severe hearing losses.

Prerequisite: 72.200

72.310 Speech Science

3 semester hours

Speech science is the study of the physiology of speech production, the acoustical characteristics of speech, and the processes by which listeners perceive speech.

72.320 Assessment and Remediation of Language Disorders

3 semester hours

Prepares students for the clinical application of language analysis procedures drawn from

linguistics, psycholinguistics, and sociolinguistics and to apply knowledge from these areas to the management of language disorders. Studies various intervention models.

Prerequisites: 72.162, 72.220, 72.240

72.330 Assessment and Remediation of Speech Disorders

3 semester hours

Considers the major theoretical approaches to assessment and treatment of speech disorders. Students engage in clinical observation, examination of standardized tests, and procedures used in the differential diagnosis of disorders in the areas of articulation, phonology, fluency, and voice. Provides training in the administration of therapy programs.

Prerequisites: 72.162, 72.220

72.340 Applied Behavioral Analysis for Speech and Language

3 semester hours

Applies the psychology of learning to communicative behavior and clinical problems. Presents current educational and therapeutic trends and practices.

72.400 Clinical Methods in Communication Disorders

3 semester hours

Presents an overview of clinical management in communication disorders from intake to discharge. Students complete assignments for hypothetical cases and participate in a variety of simulated clinical activities. Opportunities to observe and participate in supervised therapy and testing activities if provided.

Prerequisites: 72.320, 72.330

72.450 Clinical Observation

3 semester hours

Students develop the skills of a trained observer and participate in observations of the practice of audiology and speech-language pathology. Observations are conducted on and off campus.

72.460 Psycholinguistics

3 semester hours

Presents the study of language as a psychological phenomenon. Areas of study include language acquisition, meaning, biology of

language, sociolinguistics, nonverbal communication, animal communication, and application of psycholinguistics to communication disorders.

Prerequisites: 72.162, 72.240

Faculty Credentials

DIANNE H. ANGELO

B.S., M.Ed., Clarion University; M.S., Ph.D., University of Pittsburgh

RICHARD M. ANGELO

B.S., Mansfield State College; M.Ed., Bloomsburg State College; Ed.D., Lehigh University

RONALD R. CHAMPOUX

B.A., Providence College; M.A.T., Assumption College; M.S., M.A., Ph.D., University of Michigan

ANDREW J. KARPINSKI

B.S., M.Ed., D.Ed., The Pennsylvania State University

ROBERT J. KRUSE

B.A., M.A., Ph.D., Temple University

ROBERT J. LOWE

B.A., Slippery Rock University; M.Ed., Clarion University; Ph.D., Ohio University

G. DONALD MILLER JR.

B.S., Indiana University of Pa.; M.A., Ph.D., Temple University

VISHAKHA W. RAWOOL

B.Sc., Bombay University; M.A., University of Texas at El Paso; Ph.D., Purdue University

JULIA M. WEITZ

B.S., Emerson College; M.S., University of Pittsburgh

Department of Communication Disorders and Special Education

School of Education, College of Professional Studies

Chairperson

Andrew J. Karpinski

Assistant Professor

Judith M. Hirshfeld

Professors

Gerald W. Powers

Samuel B. Slike, curriculum
coordinator

Instructor

Donald R. Rubel, curriculum
coordinator

Interpreting and Sign Language

Degree Program

Bachelor of Science in Interpreting

A total of 51 semester hours is required for a major in interpreting.

Goals and Objectives

This program provides specialized training for individuals seeking to become American sign language interpreters. The objective for the sign language interpreting curriculum is to prepare individuals for certification from the Registry of Interpreters of the Deaf as professional interpreters between deaf or hearing impaired and hearing consumers within the context of a variety of settings; e.g., legal, educational, social, or business. Individuals interested in specializing in communication with the deaf have two options: a program leading to a bachelor of science or a minor in sign language. Individuals seeking entrance to the program must complete the following courses prior to formal admission to the program: 74.154 American Sign Language I and 74.155 American Sign Language II.

Required Courses

Courses required for the major in interpreting include: 18 semester hours in American Sign Language training requirements – 74.154, 74.155, 74.254, 74.255, 74.256, and one course chosen from the Code 74 course listing; 36 semester hours in interpreting requirements – 72.152, 74.201, 74.276, 74.301, 74.302, 74.303, 74.304, 74.401, 74.415, Speech Communication 25.103 and 25.215, and one course chosen from the Code 25 course listing.

Elective Courses

Elective courses are to be chosen with the approval of an adviser and as required to meet the university's graduation requirement of 128 semester hours. Students may choose from the following free electives: English 20.111, 20.411; Theater Arts 26.112, 26.208; Philosophy 28.207, 28.220, 28.290; Sociology 45.211, 45.213, 45.219, 45.231; Anthropology 46.101, 46.200, 46.440; Psychology 48.101, 48.160, 48.211, 48.271, 48.321; Special Education 70.101; Speech Pathology/Audiology 72.460.

Minor in Sign Language

Students from other disciplines in any of the colleges of the university may declare a minor in sign language. The minor consists of 18 semester hours and requires the following courses: 74.153, 74.154, 74.155, 74.254, 74.255, and 74.256.

Area of Concentration in Education of Hearing Impaired

The undergraduate curriculum in education of the hearing impaired lays the foundation for the training and education needed to prepare classroom teachers and itinerant hearing therapists to work in educational settings with hearing impaired children and adults. Individuals seeking certification to teach in educational programs for the hearing impaired are first required to major in early childhood, elementary, secondary or special education or speech pathology/audiology. Students supplement the curriculum for their majors with an area of concentration in education of the hearing impaired that requires a minimum of 18 semester hours. All students in studies in hearing loss take general education courses, professional education courses, and courses in studies in hearing loss concurrently throughout the program with the concentration in education of the hearing impaired.

Certification to teach hearing impaired students in school programs is granted by the Pennsylvania Department of Education upon completion of a related graduate program. Admission to the master's degree program in this field at Bloomsburg University is very competitive.

Required Courses

Freshman Year

- 72.152 Introduction to Communication Disorders
- 74.201 History, Education, and Guidance of the Hearing Impaired

Sophomore Year

- 72.200 Introduction to Audiology
- 72.300 Auditory Training and Speech Reading

Junior Year

- 74.205 Introduction to Instructional Methods for the Hearing Impaired
- 74.251 Phonetics

Elective Courses

The student has the option of electing up to 24 semester hours of coursework including: 74.153, 74.154, 74.155, 74.254, 74.255, 74.256, 74.469, and 74.490.

STUDIES IN HEARING LOSS (Code 74)

74.153 Introduction to Sign Language 3 semester hours

Involves a study of sign language vocabulary and fingerspelling techniques used in communication with members of the deaf community. Emphasis is on developing expressive and receptive skills.

74.154 American Sign Language I 3 semester hours

Involves a study of American Sign Language (ASL) including the history of ASL and its recognition as a language. Major focus on the

development of expressive and receptive conversational ASL skills.

Prerequisite: 74.153 or equivalent skills

74.155 American Sign Language II 3 semester hours

A continuation of ASL I with emphasis placed on more complex grammatical structures and conversational fluency.

Prerequisite: 74.154

74.201 History, Education, and Guidance of the Hearing Impaired 3 semester hours

Explores the handicap of hearing impairment with emphasis on the history of educa-

tional procedures and guidance in communicative, psychological, and vocational habilitation.

74.205 Introduction to Instructional Methods for the Hearing Impaired
3 semester hours

Introduces the design of instructional procedures and methods of implementing curricula for education of the hearing impaired. Discusses and demonstrates traditional and innovative approaches to teaching.

74.251 Phonetics
3 semester hours

Studies of the physiological, acoustical, perceptual, and descriptive aspects of speech and sound production. Primary emphasis on the description, classification, and transcription of speech sounds. Provides a base of knowledge for the diagnosis and treatment of phonemic and phonological disorders of communication.

Prerequisites: 74.252, 74.253

Hearing Impaired Prerequisites: 74.152, 74.201, 74.276, Junior or Senior standing

74.254 The Deaf Culture
3 semester hours

Involves study and analysis of the deaf community. Emphasis on research and discussion of social, psychological, and personal aspects of the members of the deaf community.

74.255 American Sign Language III
3 semester hours

Continuation of ASL II. Major focus on the study of ASL sign principles and linguistic structure of the language to continue building expressive and receptive ASL skills. Prerequisite: 74.155 or equivalent skills

74.256 American Sign Language IV
3 semester hours

A continuation of ASL II. The focus is on more advanced linguistic aspects of ASL and a synthesis of all concepts previously learned. Prerequisite: 74.255 or equivalent

74.260 Interpreting in the Educational Setting
3 semester hours

Involves the study of interpreting within a variety of educational settings including postsecondary, secondary, and elementary areas. Topical areas include: recent legislation on the status of interpreters, characteristics of various meetings, and visually coded English Sign Systems.

74.301 Introduction to Interpreting for the Deaf
3 semester hours

Focuses on topics such as the registry of interpreters for the deaf, various kinds of certification, establishing the interpreting situation, and the mental processes involved in interpreting and transliteration. There is a large emphasis on ethical behavior.

Prerequisite: Completion of American Sign Language curriculum

74.302 Interpreting English to American Sign Language
3 semester hours

Focuses on building expressive interpreting skills. Experience gained through laboratory work and classroom discussions when interpreting situations for observation and practice are presented. Emphasizes professionalism, principles, and ethics.

74.303 Transliterating English to Sign Language
3 semester hours

Focuses on building transliteration skills. Experience gained through laboratory work and classroom discussions when transliteration situations for observation and practice are presented. Emphasizes professionalism, principles, and ethics.

Prerequisite: 74.301

74.304 Oral Interpreting/Transliterating
3 semester hours

Involves the identification of information and techniques and the utilization of skills required for effective oral interpreting and

transliterating. Included is the use of personal characteristics to facilitate speech reading and the identification of the needs of the hearing impaired individual during interpretation.

Prerequisites: 74.152, 74.276, and 74.301

**74.390 Directed Project in
Communication Disorders**

3 semester hours

Students are given the opportunity to carry out special in-residence or field projects in professional service programs under the direction of the faculty or designated practitioners. A detailed project plan must be submitted for faculty approval prior to registration.

**74.400 Communication Disorders
Workshop**

3 semester hours

Specialized study of communicatively handicapped persons, new technology in the field of communication disorders.

74.401 Sign to Voice Interpreting

3 semester hours

Classroom discussion and laboratory work develop skills of comprehending the signed message, forming syntactically and contextually correct English interpretations, and the proper use of the voice.

74.415 Practicum in Interpreting

3 semester hours

Involves the placement of the student in interpreting situations on and off campus to gain "on-the-job" experience. Requires a minimum of 120 interpreting hours.

**74.462 Problems in Education of the
Hearing Impaired**

3 semester hours

Addresses the educational problem of hearing impairment and the function of teachers in public and private educational settings.

**74.469 Experience in Education of the
Hearing Impaired**

1-3 semester hours

Provides experience working under supervision with deaf and hearing impaired children in a demonstration classroom or field facility. Prerequisite: Consent of the instructor

74.480 Independent Study and Research

1-3 semester hours

Permits students to work under faculty guidance when particular needs cannot be met by regularly scheduled courses. Learning experiences may include library research or creative academic projects. Nature and scope of the project determine semester hours awarded.

74.490 Counseling Needs of

**Communicatively Disordered
Individuals and Their Families**

3 semester hours

Helps students to identify counseling needs of communicatively disabled individuals and their families, and to provide basic, short-term counseling. Introduces counseling strategies in individual and group settings as appropriate to schools and speech and hearing clinics. Open to students who do not intend to enroll in the graduate program in education of the hearing impaired.

Prerequisite: Student teaching, practicum or internship

Faculty Credentials

JUDITH M. HIRSHFELD

B.S., M.A., Temple University; C.A.G.S., Boston University

ANDREW J. KARPINSKI

B.S., M.Ed., D.Ed., The Pennsylvania State University

GERALD W. POWERS

B.A., University of Massachusetts; M.Ed., University of New Hampshire; Ed.D., University of Northern Colorado

DONALD R. RUBEL

B.S., Bloomsburg University

SAMUEL B. SLIKE

B.S., The Pennsylvania State University; M.S., University of Scranton; D.Ed., The Pennsylvania State University

Department of Communication Studies

College of Arts and Sciences

Chairperson

Mary Kenny Badami

Assistant Professors

Karen Anselm

Bruce Candlish

Michael Collins

Director of Theater

Michael Collins

Degree Program

Bachelor of Arts in Theater Arts

A total of 42 semester hours is required for a major in theater arts.

Bachelor of Science in Education

See the catalog section on Secondary Education for detailed information on this degree program and the Communication Certification which offers an option in theater.

Goals and Objectives

The division of theater arts is committed to providing a strong undergraduate program for its majors and minors in the study and practice of theater, to giving support to the university's general education curriculum, and to enhancing the cultural life of the campus community. All courses are taught by professionals in the field. Students in the major are expected to demonstrate a working knowledge of historical and contemporary theories and practices in dramatic literature, design, and performance. A degree in theater arts provides successful students with a solid background for achievement in graduate studies and career possibilities as performers, artists, managers, and technicians in professional theater and related fields such as film and television.

Recommended General Education Courses

Recommended General Education courses include: 30.101 Introduction to Art and 35.101 Music Listening.

Required Courses

A total of 27 semester hours in required courses must be taken by theater arts majors. Required courses include: 26.102, 26.108 (must be taken for a total of 6 semesters), 26.112 or 26.316, 26.211 or 26.345, 26.215, 26.321, 26.341, 26.416, and 26.490 (a seminar in script analysis).

When students acquire junior standing, they must declare an emphasis area. Requirements for emphasis areas are:

Performance – 15 semester hours

26.112 or 26.316 (choose the course not previously taken from the required course listing), 26.200, 26.451, 26.490 (a seminar in stage make-up and seminar in advanced scene study).

Design Technology – 15 semester hours

26.211 or 26.345 (choose the course not previously taken from the required course listing), 26.251, 26.311, 26.414, 26.490 (a seminar in technical problems).

General – 15 semester hours

26.112 or 26.316 (choose the course not previously taken from the required course listing), 26.211 or 26.345 (choose the course not previously taken from the required course listing), 26.219, and one course each selected from Performance and Design Technology.

The Bloomsburg Players

The Bloomsburg Players is the theater division's cocurricular producing and support organization. Membership includes majors and minors, students with professional ambition as well as those who share a love of the art and process as an avocation.

THEATER ARTS
(Code 26)

26.102 Introduction to Theater Arts
/26.208 **3 semester hours**

Presents a survey of the literature, production, and criticism of the theater. Required for theater majors.

26.108 Theater Practicum
 1 semester hour

Participation in plays: acting or technical work. Grade awarded each semester. Participation for two semesters for 1 semester hour of credit. May be repeated for maximum of 3 semester hours.

26.112 Fundamentals of Acting
 3 semester hours

Introduces the theories and techniques of acting. Provides for individual and group exercises.

26.200 Experimental Movement
 3 semester hours

Exercises and methods explored to support the vocal and physical demands of performance for the stage.

26.209 Theater Appreciation
 3 semester hours

Presents a survey of all aspects of theater: acting, criticism, design, directing, history, and production.

26.211 Theater Production/Stagecraft
 3 semester hours

Studies basic stagecraft: scene construction, painting, drafting, and crewing of a show. Laboratory work required.

26.215 History of the Theater
Spring **3 semester hours**

Surveys structures, production practices,

plays and the theater's function in societies from ritual beginnings through the 19th century.

26.219 Children's Theater
/26.319 **3 semester hours**

A survey of history, theory, and production of theater for young audiences.

26.251 Theory of Stage Lighting and
/26.314 Design **3 semester hours**

Provides for intensive study of theory and design of lighting of a production supplemented by applied work on productions. Laboratory hours required.

26.311 Stage Design **3 semester hours**

An introduction to basic movements and the methods, approaches, tools, materials, and visual concepts of scene design.

26.316 Play Directing **3 semester hours**

An overview of the principles and techniques of directing and the collaborative process with an introduction to script analysis needed for concept development. Prerequisite: One course in theater

26.321 Theater and Stage Management
 3 semester hours

Prepares students for professionalism in production of plays and the management of a theater company.

26.340 Scriptwriting **3 semester hours**

Studies dramatic structure, types, and styles of drama. Student required to write scripts for stage, film, radio, or television. Prerequisite: One writing course or consent of the instructor

26.341 Fundamentals of Theater Design
3 semester hours

An introduction to the elements of designing scenery, costumes, and lighting as they relate to the components of a theatrical production.

26.345 Costume Construction
3 semester hours

Basic techniques and approaches to costume construction for the stage.

26.414 Costuming for the Stage
3 semester hours

The study and application of costume design for the theater including methods, tools, materials, and visual concepts.

26.416 Modern Theater
3 semester hours

Continues the study of theater history from 19th century through the theater of today. Prerequisite: 26.215 or consent of instructor

26.451 Advanced Acting
3 semester hours

Character analysis based on scriptwork. Students begin to focus on particular areas of development.

26.470 Independent Study
1-3 semester hours

Provides for individual work and study in one of the areas of theater. Student finds faculty sponsor and prepares a written proposal, which requires departmental recommendation and dean's approval, arranged through the chairperson. See subsection on *Independent Study*.

26.490 Seminar: Theater
3 semester hours

Provides for a concentrated study of an individual artist, a period or a movement in theater. Offered on demand. Prerequisite: 9 semester hours in theater or consent of the instructor

Faculty Credentials

KAREN ANSELM
Costume Designer
B.A., University of Pittsburgh; M.F.A., Carnegie Mellon

MARY KENNY BADAMI
B.S., Fordham University School of Education; M.A., Hunter College; Ph.D., Northwestern University

BRUCE CANDLISH
Scenographer
B.A., San Jose State University; M.F.A., The Pennsylvania State University

MICHAEL COLLINS
Director of Theater
B.A., Northeast Missouri State University; M.F.A. Purdue University

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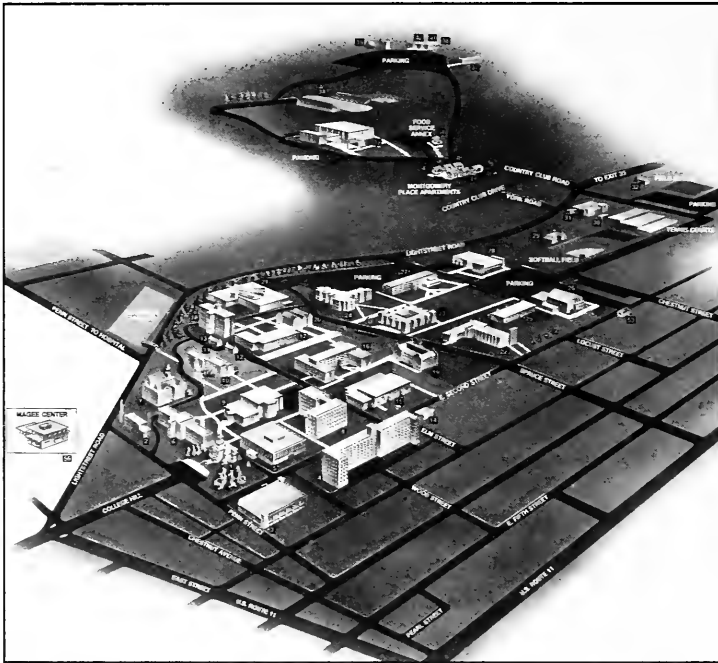
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Campus Map



Key to Campus Map

- | | |
|--|--|
| 1. Carver Hall | 25. Sutliff Hall |
| 2. Heating Plant | 26. Centennial Gymnasium |
| 3. Tri-Level Parking | 27. McCormick Center for Human Services |
| 4. Elwell Residence Hall | 28. Waller Administration Building |
| 5. Scranton Commons | 29. President's Residence (Buckalew Place) |
| 6. Schuylkill Residence Hall | 30. Physical Education Facility |
| 7. Old Science Hall | 31. Boyd Buckingham Maintenance Center |
| 8. Lycoming Residence Hall | 32. Fenstemaker Alumni House |
| 9. Kehr Union Building | 33. Nelson Field House |
| 10. Montour Residence Hall | 34. Redman Stadium |
| 11. Greenhouse | 35. Dome Storage Facility |
| 12. Carpenter's Shop | 36. Storage Facility |
| 13. Walter Simon Hall | 37. Army ROTC Office |
| 14. May Building | 38. Department of General Services Office |
| 15. University Bookstore & University Police | 39./40. Storage Facilities - not shown |
| 16. Luzerne Residence Hall | 41. Training and Information Processing Office (TIP) |
| 17. Northumberland Residence Hall | 42. Ground Crew Office |
| 18. Columbia Residence Hall | 44.-50. Montgomery Place Apartments |
| 19. Benjamin Franklin Hall | 53. Wilson House |
| 20. Navy Hall | 54. Monty's |
| 21. Haas Center for the Arts (Mitrani Hall) | 56. Magee Center |
| 22. Hartline Science Center | |
| 23. Harvey A. Andruss Library | |
| 24. Bakeless Center for the Humanities | |

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A State System of Higher Education University
Bloomsburg, PA 17815